THE
25 CENTS

AMERICAN RIFLEMAN

OCTOBER 1942

Mr. Albin E. McNamara,
196-41- 45th Ave.,
Flushing, N. Y. L' 11/28/36

Remember when Peter Peepsight won the cup?

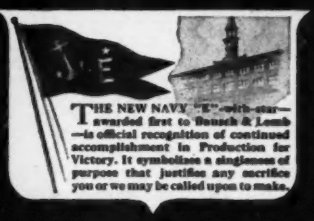
DON'T HURRY YOUR SHOOTING TODAY, PETER. THIS IS OUR BIG INTER-CLUB MATCH OF 1941
ALL RIGHT! BUT YOU FELLOWS REMEMBER THE DOPE I GAVE YOU
DON'T LET THIS LITTLE CROSS-RANGE BREEZE BOTHER YOU
SURE, IT'S ONLY 15 MILES PER HOUR
OH GOLLY!
WE'VE GOT SWELL SCORES SO FAR. NOW IT ALL DEPENDS ON YOU
WHERE'S PETER? HE SURE GAVE US THE RIGHT DOPE
BOY, DID I HAVE THE JITTERS! BUT I KEPT 'EM IN THE MIDDLE
I'M GONNA HANG A MEDAL ON YOU, PETER. YOU GOT US ALL TO SWITCH TO PETERS AMMUNITION, AND THAT SURE HELPED US WIN TODAY
IT USED TO SEEM MIGHTY IMPORTANT TO WIN A CUP, BUT NOW WE'VE GOT A WAR THAT MUST BE WON! SO PETERS AMMUNITION GOES TO OUR ARMED FORCES THESE DAYS. THE "V" THEY'RE SHOOTING FOR IS VICTORY

PETERS Rifle and Pistol Ammunition

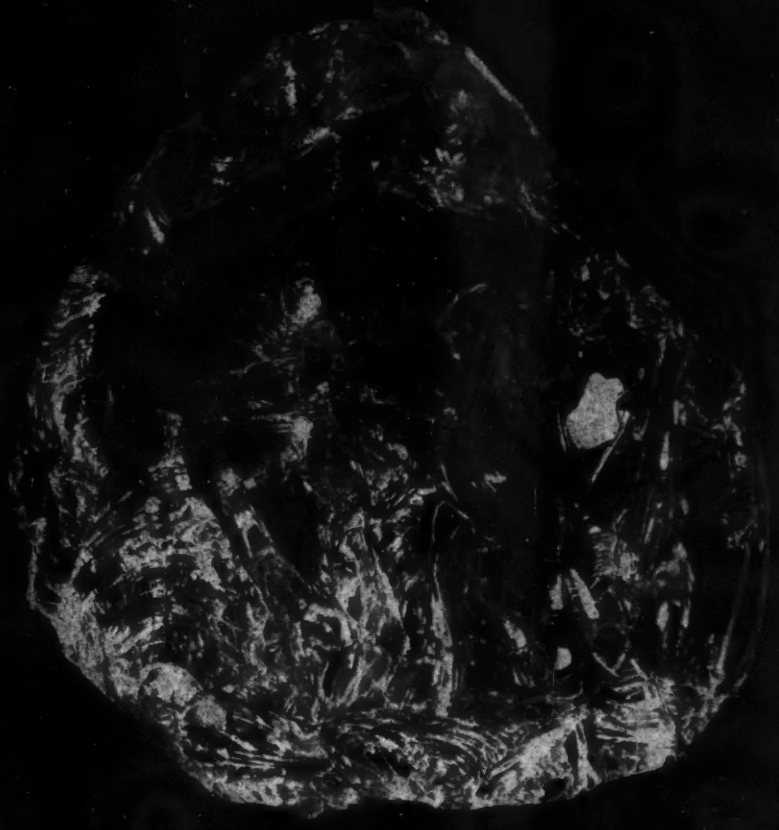
PETERS CARTRIDGE DIVISION, *Remington Arms Co., Inc., Bridgeport, Conn.*

"Police Match" is a trade-mark of Peters Cartridge Division

DU PONT



THE NEW NAVY "E"—with star—awarded first to Bausch & Lomb—is official recognition of continued accomplishment in Production for Victory. It symbolizes a singleness of purpose that justifies any sacrifice you or we may be called upon to make.



YOUR Ray-Ban

SUN GLASSES MAY BE ON AN ARMY FLIER NOW....

Because they make eyes comfortable, vision sharp, Bausch & Lomb Ray-Ban Sun Glasses have won top preference among sportsmen, shooters, outdoor enthusiasts. But those are the same reasons why Army and Navy men need Ray-Bans too. B&L production of Ray-Bans, like binoculars and many special optical instruments, is today at an all-time high. But you may have to wait for yours until government requirements are filled.

★

Crown Jewel for Victory

THIS is a chunk of optical glass. It has been broken out of a porcelain pot which came from the furnaces of the Bausch & Lomb Glass Plant.

It may be destined for use in binoculars—the long-range eyes of Army and Navy. It may be one of the types of glass that comprise the optical system of a medical research microscope. Or it may go into service as a range-finder prism, finished to accuracy limits of one second of arc, an error so small that it amounts to only one foot in 39 miles.

Fathered by William Bausch, the B&L Glass Plant was born in 1914. Under impetus of glass shortages in the first World War, it grew to full manhood. Research and development have continued without interruption since, so that today America need not look beyond her own borders for an adequate supply of this essential war material.

One hundred ten types of optical glass come regularly from the Bausch & Lomb furnaces, to provide the various refractive indices and dispersions required in the lenses and prisms for thousands of scientific instruments.

For a quarter of a century, Bausch & Lomb has dedicated itself to the task of perfecting and producing optical glass—that America may never again be deprived of this prime military essential.

BAUSCH & LOMB
OPTICAL COMPANY • ESTABLISHED 1853

AN AMERICAN SCIENTIFIC INSTITUTION PRODUCING OPTICAL GLASS AND INSTRUMENTS FOR MILITARY USE, EDUCATION, RESEARCH, INDUSTRY AND EYESIGHT CORRECTION

From Official U.S.M.C. Photo

Firing Model 55—
Harrington & Richardson
Reising Submachine Gun

NAVY DEPARTMENT ★ IMMEDIATE RELEASE ★ PRESS AND RADIO

MARINES ADOPT NEW WEAPON

The Reising Submachine Gun has been officially adopted as a supplementary .45 calibre weapon by the Marine Corps.

In recent months several thousand of these deadly, close-range guns have been procured and issued to Marine parachute troops and other special assault units. Their satisfactory performance led to the current program of extending their use.

Two models of the Reising gun are used by Marines. One has the conventional solid stock, and closely resembles an ordinary rifle in appearance. The other has a folding steel-frame stock and pistol grip, giving the weapon unusual compactness and a weight of only 6½ pounds.

The latter model, designed for use by parachute troops, was developed by the inventor and manufacturer* at the suggestion of Marine Corps weapon experts. Its size enables parachutists to jump while carrying weapons of high fire power.

The Reising is effective at ranges up to 300 yards, and is suitable for use by mechanized troops, air-borne infantry, vehicle operators and others whose duties require a short and light, yet high-powered and accurate weapon.

The Reising Submachine Gun uses standard .45 calibre ammunition. With full automatic adjustment, it fires at the rate of 400-450 rounds per minute. It is also capable of semi-automatic operation — one shot at a time, with automatic reload. Leaving the muzzle at a rate of over 300 yards per second, the snub-nosed .45 bullet will penetrate six inches of white pine at 20 yards.

The gun is of simple construction, having only three moving parts. Loaded magazines may be inserted swiftly and the weapon does not "buck" as much as similar guns when long bursts are fired. It is air-cooled and reloading is accomplished by a delayed blow-back.

*Exclus[ive]
HARRINGTON & RICHARDSON ARMS CO., WORCESTER, MASSACHUSETTS

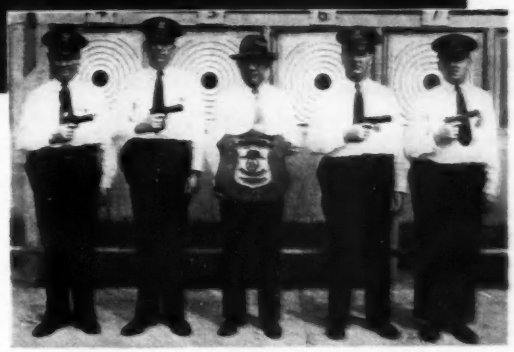
HARRINGTON & RICHARDSON

NEW YORK POLICE TEAM
TIES RANGE RECORD AT TEANECK

Dropping only four shots out of the 10-ring in 1200, the New York Police Team foursome led a field of 87 police teams at the recent Eleventh Annual International Police Pistol Tournament conducted by the Teaneck, N. J., Police Dept. When the first event ended, New York Team No. 1 had totaled a remarkable 1196 to tie the record established two years ago by the White House Police. To accomplish the feat, Arthur Fegan scored a perfect 300, Mark Walsh and Harold Voelbel each had 299 and Herman Hunter, 298. Close behind was New York's 2nd Team with an 1190. For the sharpshooters from Manhattan — all Colts!

In the five individual events that followed, the New Yorkers continued their shooting excellence by capturing three matches. In the .38 Open Match, Fegan scored with a 293 . . . in the .22 Match, Weldon's 300 outranked the four other possibles . . . the Policewoman's Match was taken by Adelaide Knowles with a 283.

From left to right in the New York photo above: Sgt. A. Schuber, Ptl. V. Sargent, Police Commissioner Lewis J. Valentine, Ptl. M. Walsh, Lt. J. Weldon, Ptl. H. Hunter, Policewoman A. Knowles, Ptl. H. Voelbel and Ptl. A. Fegan. Not shown are T. McCormack and C. Long.



SPARROWS POINT (MD.) POLICE TEAM

Traveling up from Maryland, the Sparrows Point Police Team turned in an 1154 in the .45 event to top their nearest rivals by 36 points. Left to right: Ptl. J. C. Jones, Ptl. C. W. Lipscomb, Chief Marcus H. Miles, Sgt. H. H. Leland and Ptl. Arthur F. Lotz.

PAT COUGHLIN

Pat Coughlin, pistol instructor at a plant of the Aluminum Co. of America, took his share of firsts by winning the .38 Individual Match for non-team members with a 298 . . . and the .45 event with a 295.

JOHN COBINE

A 297 for John Cobine, Trenton Police Dept., to annex the Right and Left Hand Match with his Colt Officers' Model.

COLT

THE WORLD'S FINEST REVOLVERS & AUTOMATIC PISTOLS

COLT'S PATENT FIRE ARMS MFG. COMPANY
HARTFORD, CONN.

"It's Messerschmitts not Mallards today, Bill!"

RAPID FIRE... Winchester was a pioneer in rapid fire—developing the first successful repeating rifle, the forerunner of the modern rapid-fire gun. For years Winchester leadership in sporting arms has included repeating shotguns. First, the sturdy Model 97. Later, the famous Model 12, the world's most popular repeater.

TODAY, when warbirds swoop and circle with deadly menace, America's familiarity with firearms is paying big dividends.

Men who yesterday trained themselves to swing a gun smoothly and accurately at wildfowl—who thrilled at the long range of Winchester Super Speed shotshells—are today the guardians of our safety. For now their peacetime skill is helping rid the skies of Messerschmitts and Zeros.

Today, while its great reputation lives on in the hearts of sportsmen, Winchester, too, has gone to war—proud that its world leadership in sporting arms and ammunition can now help America to victory. But we are not unmindful that war can teach—as well as destroy. Already our experience in wartime production is bringing to light new methods and developments. And when peace comes, you will benefit. For rest assured that if Winchester Super Speed, Leader and Ranger shotshells and Super Speed and Silvertip cartridges can be improved, they will be.

WINCHESTER REPEATING ARMS COMPANY, NEW HAVEN, CONN.
Division of Western Cartridge Company

IMPORTANT
Limited supplies of Winchester shotshells and cartridges are still obtainable. See your dealer.

MORE VALUABLE THAN GOLD. At one point on his 1915-16 Antarctic expedition, Sir Ernest H. Shackleton was forced to reduce the weight of his equipment to the absolute minimum. He abandoned valuable instruments, even gold coin, but he felt he could not dispense with his Winchester .44 cartridges.

WINCHESTER

• TRADE MARK

"On Guard for America Since 1866"

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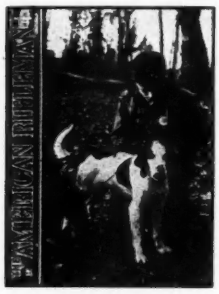
RIFLES AND SHOTGUNS • CARTRIDGES AND SHOTSHELLS • FLASHLIGHTS AND FLASHLIGHT BATTERIES

The AMERICAN RIFLEMAN

Official Journal of The National Rifle Association of America



THE COVER: As October rolls around each fall, our outdoorsmen start thinking seriously about hunting, and hunting always carries with it that finest of associations—a dog and a gun. Our North Carolina guide on the cover is getting ready for the big chase. His dog will soon be on the trail of bear or boar and the partnership completed in the team work of master and hound. Our photographer John Scofield caught this scene on top Hooper's Bald Mountain in the Great Smokies. It is a companion piece to "Trails Unlimited" our lead story page 6.

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"How They Took Vieville." Colonel Andrews has given us several articles on the combat rifleman, but he hits the peak of actual illustration in his recital of the riflemen teams that a marksmanship-conscious officer picked to take a World War I fortification. It's one of the finest testimonials to rifle effectiveness we've ever had the privilege of bringing our readers.

"Game Guns," a short story by a new Rifleman contributor, Morgan Holmes, gives recognition to the nervous, excitable hunter, and we believe there are lots of them. As the birds are flushed from their cover this month, how many can say their nerves remain steady; that they wouldn't appreciate some tips on making the shot a bit more sure.

"Picking a Used Handgun" covers many of the problems we've been wanting to get in print. A guide for the many who are looking around in these days of priorities, we believe it will also serve as a source of reference on checking over your own handguns.

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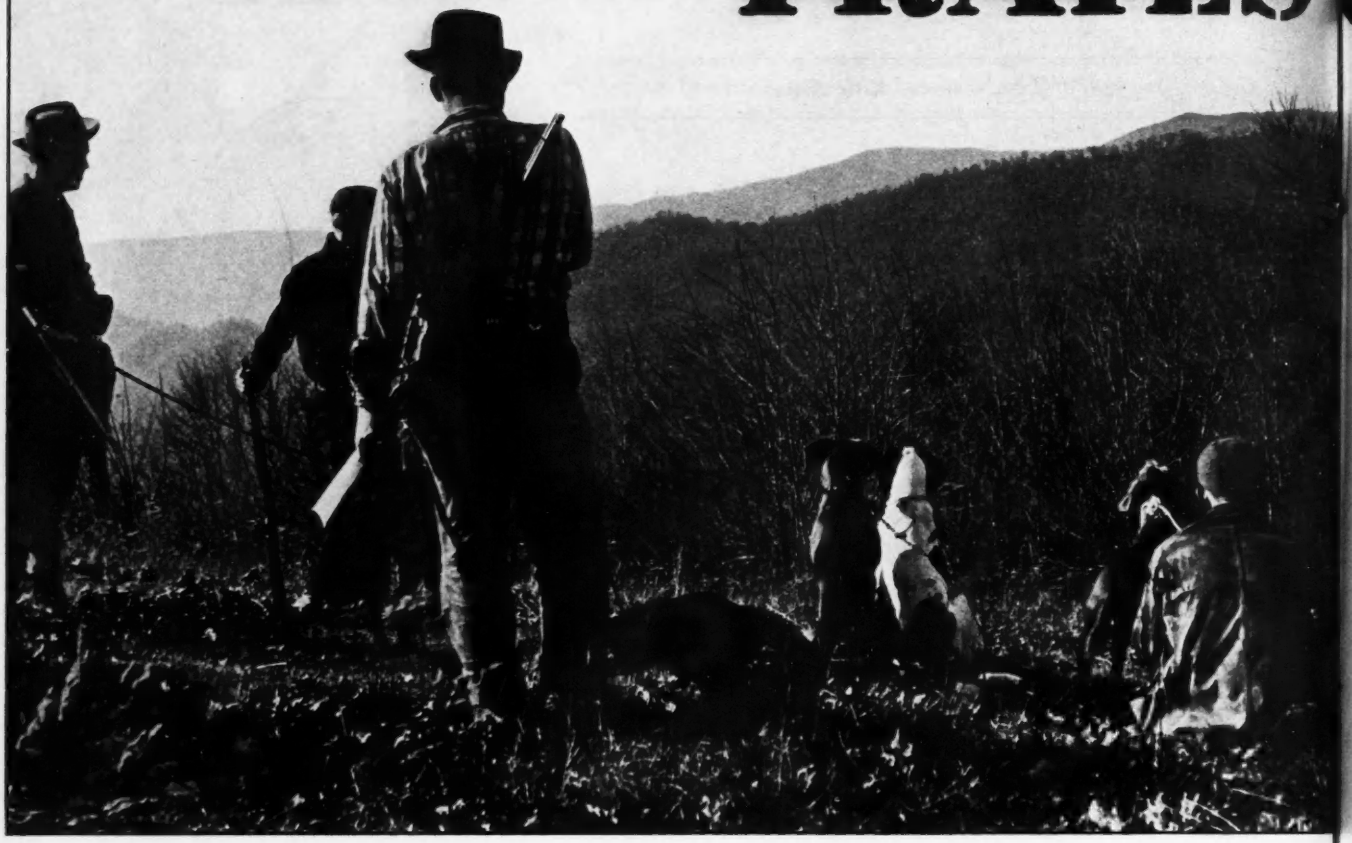
TRAILS U



OCTOBER USHERS IN THE nation's greatest sporting event—the mass exodus to the hunting fields. With a game-plentiful continent, a variety unequaled in any other land, trails unlimited beckon the American gunner-sportsman. There's freedom in the great outdoors, a part of the "four freedoms" we're fighting for. There's a grand heritage in our hunting lands, kept in their natural state by a conservation-conscious state and national government; or preserved by certain characteristics which rebuff all attempt at exploitation or settlement. Amidst the riot of the autumnal coloring and the free exercise of our hunting privileges, let us give pause to a determination that all this shall be safeguarded through the winning of a war that now mars an otherwise gay event.

The American hunter is better fitted and better equipped than any other. Like his freedom-loving ancestors, the good game shot finds himself at home wherever his wanderlust may take him. Once more on the trail, he takes on a new identity, an individual strictly on his own; matching his experience and shooting ability against a game bird or animal whose existence thus far has depended upon an inborn craftiness against all comers; independent in his wanderings and dependent solely on himself for his bearings in the absence of marked highways, guideposts, or kept trails. For locale, there's a whole continent to hunt over, restricted only in the matter of a license from the state he may choose, plus a few provenwise conservation rules.

Hunting is hunting, wherever you find it, though with variations aplenty. The hunter can pick and choose, seeking new experience in the game he elects to go after. Keeping in mind the abundance of game, the habits and habitats of our wildlife, he selects his fall hunting mindful of the weather conditions he is likely to encounter, the transportation available, the mountains, the plains, the swamps, the burnt-lands he covers; he takes along rifle or shotgun and loads to match the expected game.

Hunting is hunting—whether stumbling over

SUNLIMITED

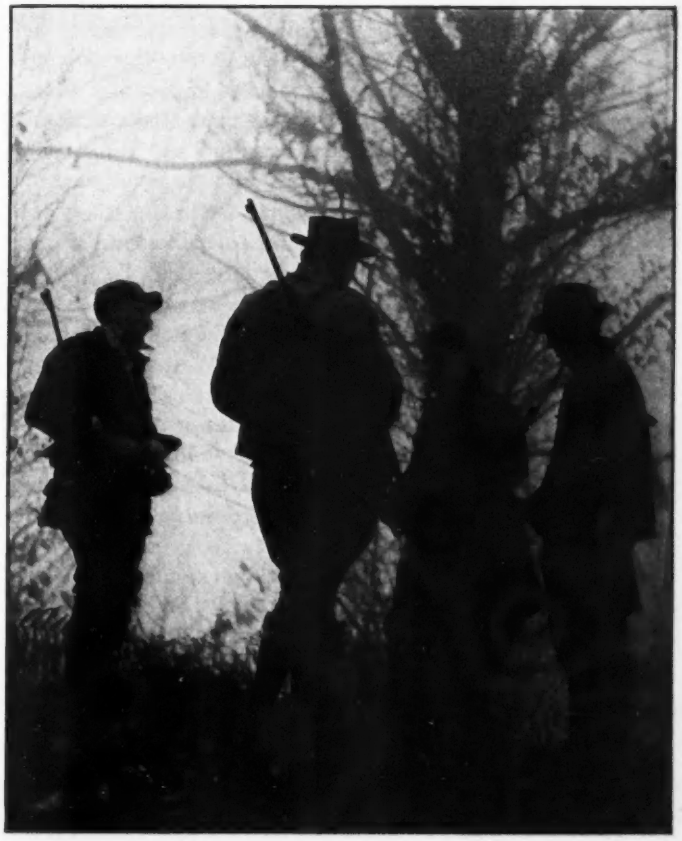
loose slate in the Rockies to get within range of a mile-distant white speck that is hopefully a record mountain goat head, or skulking through a Florida swamp for a possible shot at a pintsize white-tail.

You may select the northern tier of states, Maine to Minnesota, or for that matter the Blue Ridge Mountains of Virginia and the Great Smokies of North Carolina and Tennessee. Accepted that you are sticking to a given type of game, there may be no essential difference in general hunting conditions over the whole area, but the spotty differences between two parts of the same state caused by localized topography or even by the notions of the natives is an answer to our quest for variety.

For example, the lake-watered portions of Minnesota, Wisconsin, Michigan, Ontario, Vermont, Maine and New Brunswick, state or province, present the same transportation problems to the hunter, who would have to use boats or canoes to get to camp in order to reach the isolated game pockets, otherwise inaccessible. When a guide is mandatory as in New Brunswick, the sportsman might have a cabin cruiser for the larger lakes at fifteen or twenty bucks a day, with the guide as skipper. The Maine guide might paddle your canoe into wilderness river country and serve as cook back in camp. By the same token you can enter the same states, the rugged hills of Maryland and West Virginia, or any of the elevated hunting woods of the eastern areas, and find another pattern. You'll probably make up a small party, locate an isolated cabin or pitch a tent, then hunt out alone but in the same general direction of your friends. Or, particularly in Pennsylvania, New York, Maryland, you may find yourself a part of a gang that's taken over the towns of the popular deer districts. Here there's the holiday spirit you can't miss. The small towns are boom towns. If you've failed to make reservations, it's just too bad, for every room is taken. Only hunting garb is seen on the streets or in the beer joints and the tall tales fly fast and furious.

You like to still hunt and yet you want variety. Go where you like you'll still use all your basic technique; whether hunting the bare limestone hills of Western Texas and the snow-laden altitudes of the Colorado Rockies, or the coastal swamps of Virginia, or the rolling treeless plains of Alberta. There will be opportunities for extremely long shots in the dense growth of Pennsylvania and short range shots to be taken in the open spaces of western plateaus.

Hunting is hunting and with it goes a common language understood by all. In the extremes of Arizona and Mexican deserts or the tangles and soaking river bottoms of Mississippi and Alabama swamps, the American gunner of any section speaks the language. In the swamps you'll watch for cotton-mouths with one eye and keep the other alert for the small deer and bear of the deep South. You'll carry a rifle with eighteen or twenty-inch barrel, or a shotgun equally short. Muzzle blast may be bad, but who can swing a long rifle in a magnolia thicket? In Florida perhaps you'll take the Everglades trail through the hummocks in a woods buggy designed to slosh through mile after mile of foot deep, leaf-stained yellow water



with bear, deer or perhaps the last of the Florida puma at the end of the hunt.

The desert or the bare purple slopes of the Sierra Madres will mean pack horses and Mexican guides, long range shots and the giddy thrills of sky-top trails that slip off a thousand sheer feet below you.

In the Eastern areas, deer, bear, turkey and ruffed grouse are usually found in the same country but obviously you will have to go down or at least into the uplands for quail and grouse and still lower into the bottomlands for ducks, quail and grouse. You will also carry a shotgun instead of a rifle and use bird dogs instead of hounds.

In North Carolina's Pisgah Forest or Georgia's Chattahoochie, you may be the guest of the Federal game officials on one of their well-conducted hunts. Here you'll check in each morning, be issued your red cape and assigned to a compartment which the guides will point out to you and in which you will hunt over the limitations of several acres. The guides will be at your beck and call and should you get your game as far as the trail, a government truck will haul it into camp for you. The guide will dress it out if you choose to remain unbloodied.

If you've tired of deer hunting, there's a hardier trail for you in the Smokies of Western North Carolina, in the quest of the big "Rooshan" boar or some of the finest Eastern black bear. Here again is a pattern set by the natives and the few outsiders, seeking a change of pace. A long pack up into the mountains; plenty of good dogs and a makeshift camp; long hikes every morning to get out to the favorite stands, and a killing trek for the guides through the almost impassable drives. Two drives a day will be about the maximum. When a bear or boar is put up and comes near your stand, it means quick shooting and accurate tallies; or when the quarry makes a stand you crawl into the thick laurel to make the kill and save the maiming of some fine dogs.

Deer drives—gang hunting—a familiar story. In Texas drives are short and the number of hunters small. In the "headers" of Western Texas two men can oft' times walk out a skulking buck and drive him across the next pass or saddle above, where the lone watcher waits. In Pennsylvania, on the other hand, the number is apt to be at least tripled; organized drives there amount to as many as a dozen watchers, and twice as many drivers. Favorite stands are on ridge points, fire lanes, stumps and particularly, high perches in trees. Man drives are made in straight lines across the line of fire of the watchers, or standers, as they call them, stationed also in a fairly straight line. When dogs are involved, the drive becomes a circuitous one, and the standers have to cover a broader and less regular area.

Dog driving is legal in places, even necessary in some spots. That goes as well for buckshot. Take a southern swamp, where the shooting must be done on the road because all of the cover is impenetrable except to the hounds. There the only chance for a shot at a bear or a buck is when the purps bring him out on the roadway. Anything having longer range than buckshot would be dangerous. In those states which ban the rifle in favor of the smoothbore, even for normal conditions of deer hunting, our hunter might well select a rifled-slug load for his scatter gun. For New Jersey hunting, well and good; for our southern swamp, where the tupelo and cypress predominate, neither the slug load nor the preferred method of hunting would bring home the venison.

How about a crack at that most graceful of North American game—antelope? His smeller is not as good as the deer's, maybe, but his vision is better, and there's not a spot of cover on the wastelands of southern Alberta or the barrens of Wyoming. In perfectly flat areas where he lives his fleet and nervous life, only long-range shooting with a varmint or target-type rifle, or sheer luck, will get you a shot. You ride your car or a cayuse into the hunting grounds and then you're on your own belly or knees, crawling to the top of a low hill, or at least one of the swells or rolls found in that kind of country. You spot him in the distance and pot him, if your armament and ability permit. Otherwise, you continue that procedure of crawl, peek and shoot throughout the day; for a week if you are unlucky.

In the same general part of the nation you can drive your car a little higher into the foothills for mule deer. Or you can climb higher afoot or on horseback, up onto the base of the mountain itself, where the buck-brush covers the steep slopes. In many places in the West there are white-tails and mulies both in that cover with only mule deer above. Still higher you will find elk and mulies in the 'pines, at 5000 feet, and only elk from there through the aspen, at 7000 feet, to the spruces at 9000, and above to 11,000, where these dark, hardy trees form the timberline belt.

And so it goes. What shall it be this fall? Colorado for elk? Oregon mulies? White-tails in Pennsylvania? Bear? Goat and sheep? A dog hunt for mountain lion? Georgia for turkeys? Go ahead, Mr. Sportsman, you name it!

An Editorial

Now that I'm Really Bothered

THIS IS HOW IT STRIKES ME. I'm just an ordinary fellow—wife and two kids—pretty fair size mortgage on the place—pretty comfortable, too, that place I managed through F.H.A. Never have bothered much with politics—figured the "ins" were having too good a time anyway—and, well, they managed to get more out of the government than any other bunch, and I was riding right along with them. But there were always some fellows around, overheated, seemed to me, always talking about classes and rights and economic royalists, and things like that—*but that didn't bother me much.*

Then all of a sudden, we were in this war. Well, it was quite a shock at first, just thinking about the young fellows that would get killed, but then I read the papers and how those Japs were all weak-eyed little fellows and using little toy guns, rifles I mean, and using a lot of cheap imitations of the real things you use in war, like tanks and airplanes and so on, and that those half-starved midgets would fold up in a hurry once our Uncle Sam quit sending 'em scrap iron and gasoline and started throwing a few healthy rights and lefts at 'em—*so I wasn't much bothered.*

I began feeling better when I swung in with that big construction gang and helped put up the biggest factory you ever saw in your life—to make tanks instead of cars, and we did it in a hurry. It could have gone up faster, of course, if we hadn't had those strikes, but they kept telling us that we might as well get the money while we could because the big boss would be getting plenty, too, and this country of ours was rich and could afford to let this war cost more than it cost Hitler or the Japs. The papers were telling how production was going to win this war and that we were the arsenal for everybody fighting on the right side, so I guess I just figured that these machines we were turning out faster every day were the stuff, and as long as we kept on the job we weren't going to be touched much by this war—*so I still wasn't bothered.*

But then a fellow I always went hunting with in the fall was reported killed in the Philippines. I never thought of it much before, but there were about twenty of the fellows right from my own neighborhood in a tank company that drilled once a week at the guard armory, and somehow after they got in the regular service ended up in the Philippines, and Joe was one of them. Well, his number must have come up before the rest, but his buddies got caught on Bataan anyway. But if Joe had his hands on a rifle I know he did plenty to those Japs before they got him.

I started thinking about Joe, and about our hunting together and how we couldn't go hunting this fall or any other fall, and I began to get bothered. And then I knew that it wasn't just Joe, although you know how bad a fellow would feel about losing a shooting pal, but all of a sudden like *I knew I was bothered about a lot of things.*

This war may be a long way off, but now that I'm really bothered it's getting pretty close to me. Sure, I'm working on those tanks a while longer, but I'm going to do some other things. For one thing, I'm going to think about a bit of killing. That sounds kind of ugly I know but that's war and it's getting close to me. No, I'm not thinking of killing the politicians, not actually, those fellows who have been passing the buck when they're caught in some fine sleight-of-hand. We'll take care of those fellows in other ways when we ordinary fellows all get bothered like I am right now. I'm thinking of accounting for four or five of the enemy just on my own. It means joining up and sacrifice for my family, but we've talked that all over, and I'm getting ready.

When a fellow gets bothered about winning this war, you can't just let George do it. Besides I'm just as good as George, and maybe a whole lot better, as far as making that tally of four or five I'm after. You see, Uncle Sam has been thinking of me. He let me sport around with a gun all my life, without many restrictions, and there's a lot of my shooting friends in the same boat. So now I'm thinking about him—and my family and that place of mine. I figure I'll make him a pretty good man, especially if I get ready. So I'm going hunting for a week-end, again this fall. I won't have the fun I had when Joe was around but I'm going anyways—to keep my eye.

No one can tell me the rifle won't count in this war—I've been reading about those Marines in the Solomons and seems to me they were just damn good hunters. When I do that stalking for a buck I'm going to be practicing, and when I snap at him streaking past a crossing, I'm practicing; and I'm going to get that feel of the sights lining up at the right spot just naturally; and I'm going to help some other fellows get the same idea. They may go in the Air Corps, but Butch O'Hare was always a handy kid with a rifle they tell me, which probably helped him knock down those five Jap planes in a row. I'll probably be a foot soldier, but that Major Whaling I met at Camp Perry two years ago, got a Jap running along the beach just like I'll be shooting that buck.

I'm damn sick and tired of being kidded about wanting to do something. I figure there's got to be lots of fellows getting bothered, and bothered about doing some killing. To hell with the politicians, and the smooth talkers who are still looking out for their own hides. We can get plenty mad and win this war in spite of them. And the surest way to win is to kill Germans and kill Japs.

I'm a pretty fair shot, but I can be better. There's lots of young fellows I can help to get better, too. And while I'm all fired hot I'm starting to do something—*now that I'm really bothered.*

HOW THEY TOOK VIEVILLE . . .

As Told to Lt. Col. R. C. Andrews

The late General Frank C. Mahin, who was killed in an airplane accident on July 25th, 1942, commanded the battalion which took Vieville. In two different units in which I served under him, the General used this historical action to school his officers in the value of rifle fire in modern battle. Shortly before his death the General authorized me to write up this action. I regret that it is the only tribute I can pay him. I am indebted to Colonel Philip Wood, USA, who took part in this action as a company commander, for his correction of facts in the present article.—R.C.A.

IT WAS SEPTEMBER of 1918; the St. Mihiel drive was in the making. For the first time, an American army was to have a crack at the Germans on its own. Pershing's plan, to smash into the German railroads to the north and east of the Meuse, and the ore deposits of Metz and Longwy, necessitated first the reduction of the St. Mihiel salient. German held for four long years of war, St. Mihiel formed a bulge of enemy pressure far into France, where it pointed, like a loaded gun, at the very heart of Allied territory. The salient had to be taken before the Autumn rains set in.

The first battalion of the 11th Infantry of the 5th Division was confronted with the task of capturing the small French town of Vieville. Vieville was a strongly defended German position which the French Armies had been unable to take during the preceding four years of war. It was an ordinary French village, consisting of a row of houses on each side of a central street. There was a church with a tower at the west edge of the village. The houses were of limestone blocks of great thickness. Photographs and French reconnaissance reports showed that there were three belts of barbed wire just south of Vieville and that the total depth of this wire was 18 yards. South of the village the ground sloped away very gently, devoid of any cover except old shell holes. There were woods to the east of the village at some little distance. In front of this battalion of the 11th Infantry there was no cover for 500 yards from the village. South of this open place there was a stretch of woods about 1000 yards deep which turned out to be crisscrossed by machine gun fire lanes and heavily defended by German snipers in trees.

The battalion knew a few days in advance that its mission would be the capture of Vieville. French reports revealed that there were suspected concrete machine-gun pillboxes in many of the houses on the south edge of Vieville. Consultation of the officers was called. Various plans to capture this town were submitted. There were no dive bombers available. Smoke was not in use as it is now. The town had been pounded by artillery for four years without noticeable result. It seemed doubtful that artillery fire now would do more than knock down refuse on top of the concrete pillboxes, thus decreasing the effect of further artillery fire by heaping a bursting layer over the pillboxes.

After careful study of the known enemy fortifications the Battalion Commander requested and received 400 close range oblique aerial photographs of Vieville taken from the south of the town, that is, the direction from which he would have to attack. Upon this he based his plan. The attack started shortly before dawn, the battalion entering the thick woods to the south of Vieville. A rolling barrage preceded the battalion through the woods, but was not very effective because of the denseness of the woods themselves. The battalion suffered many casualties going through these woods. The fighting was almost all between individuals, men locating

Germans by the sound of their weapons and closing in on them singly. Some German snipers who were shot out of trees wore breast plates of steel weighing as much as 40 pounds. Unfortunately for them the Germans wore only their uniform pants and were shot directly from underneath!

Having arrived at the bare ground south of Vieville, the Battalion Commander put his preconceived plan of attack into effect. He had come to the conclusion that if machine guns were located in these houses they would be very close to ground level. He also concluded that a hole or embrasure in each house would therefore be found slightly above ground level. Knowing the effects of the muzzle blast of a machine gun, he further concluded that if these two surmises were true German guns firing from these loop holes would betray their location by creating what would appear to be a cloud of steam as the muzzle blast blew fine particles of limestone into the air.

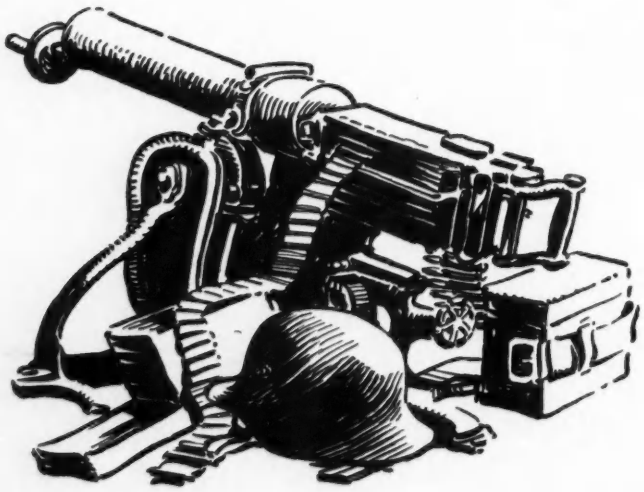
Basing his disposition for the attack on these conclusions, he had numbered each house along the south edge of the village on the airplane photograph. He had then picked out his best shots, men who had received rifle training in the United States, and teamed them in pairs. Each pair of riflemen was directed to pay attention only to the house which was assigned to that pair. For example, the pair assigned to house number 4 were to advance with all their attention fixed only on that house. They were not to fire unless they saw a cloud of limestone dust from house number 4. What occurred in houses 2 and 3, for example, was to be left up to the rifle teams assigned to houses 2 and 3. In no case were they to fire at any other house than the one assigned to them.

The riflemen deployed into the open beyond the bank and began their 500 yard advance across the open toward Vieville. They advanced with their slings adjusted on their arms and their sights set at 500 yards. As they advanced they kept adjusting their sights so that they were always ready to shoot from the range where they were then located. The action progressed as the Battalion Commander had planned it. Telltale clouds of limestone dust appeared near the bottom of each house as the battalion advanced. When that happened the pair of riflemen assigned to that house hit the prone position and commenced rapid fire at the little dust cloud. When that dust cloud disappeared they arose and continued their advance. While bursts of machine gun fire were heard from the village, there was always a considerable space of time between bursts. The battalion, deployed as skirmishers, followed these rifle teams at several hundred yards distance. The rifle teams came up to the wire without loss of a man. As one man of each team crawled through the wire his buddy on the south side of the wire lay in position aiming at the loop hole in the numbered house assigned to that pair. Other parties worked their way around the flanks of the village and into town.

No one in the main body of the battalion fired a single shot during the attack. Only the picked two-man rifle teams fired during the advance. Vieville, the battalion objective, was captured two hours after the attack through the woods started. No casualties were suffered by the battalion while in the open with the exception of one officer wounded. When Vieville was taken 17 German machine guns were found, manned by 69 dead German soldiers. Everyone of them was shot squarely through the head by rifle fire. The Germans had stepped up to the machine guns until the fire of the two-man rifle teams had proved to them that this action was sure suicide.

Prior to the attack of the riflemen the barrage which had accompanied the battalion through the woods had pounded Vieville—six batteries of 155-mm. cannon and 14 batteries of 75-mm. guns had shelled Vieville for one hour with no other effect than to partially destroy the buildings. No German pillbox was damaged in any way under this terrific bombardment. *Rifle fire and rifle fire alone took Vieville.*

The rest of the story is known to everyone. The main drive swept through the St. Mihiel salient; the German Army felt for the first time the weight of U.S. troops. The victory was complete and crushing. The drive damaged German morale far beyond anything that had happened during four previous years of war. It was the beginning of the end.



GAME GUNS— By MORGAN HOLMES

THE BAGGING OF A BIRD today is a much greater feat than it was forty years ago. That seems perfectly obvious when you consider the abundance of game, the longer seasons and therefore the number of shots a hunter would have as practice in keeping his eye. The old timer fired more shots in one day than the hunter of today fires in an entire season. The training these old-timers received cannot be had and probably never will be available again. It therefore becomes necessary to get as near as possible the same results from the untrained man of today as was easily possible from a trained man years ago. It becomes necessary to compensate in some way for the difference in the mental attitude, the feverish excitement of the inexperienced hunter who has been unable to get much shooting, comparatively, under hunting conditions. Because the game is harder and the shooters poorly trained we have to fit a different kind of hunter. To do this with any degree of success we must stock our guns with this type of hunter in view and thus off-set his faults.

I have long been of the opinion that guns can be made to hit even if a man is greatly excited. Of course the fellow who fires to the rear when the bird flushes to the fore is not going to be cured by any stock and had better hunt with an empty gun. But the man who gets himself all screwed up in bunches when a dog points and remains semi-conscious until the bird is almost too far away and then makes a lightning-like stab at him; or the one who must have his finger bending the trigger because the dog's tail twitched and fires his gun before he shoots it, there's a chance that a few things built into his stock would make him connect in spite of these antics.

Without attempting to take up all the points of value to these men, I would at least like to mention what I consider one of the most important—the matter of grip. This point has been pushed around in a haphazard any-grip-is-good-enough attitude for a long time. There is no question that some men will do very much better shooting with a full pistol grip than would be possible with any other type, and the opposite is also true. But bear in mind I am trying to help the nervous, untrained hunter. I might mention here that I cannot agree to any mechanical means to cure this nervousness. I realize that certain shooting games can help form habits, and without certain habits we cannot kill game with any regularity, but clay birds cannot cure the excitement and startling sensation of a flushing bird.

When a bird flushes the first thought is to locate the game and only second to this seems to be the great desire to get him before he is gone. The subconscious reactions to these thoughts are damaging. The conscious thought that the game is getting away has a tendency to lure us away from the carefully practiced maneuvers learned through dry practice or clay bird shooting, with the result that all the sub-conscious gun mounting movements are done differently. For this reason a different stock is required if we are to hit. The gun with a straight grip will strike the shoulder lower than a stock with a pistol grip. Chances are the straight grip gun was fired before it reached the spot on the shoulder where clay birds taught it must be to hit.

I am a great believer in the fact that under the stress of bird shooting our hands move about the same each time, but in a decidedly different way when no excitement is present; even when doing the same things, such as mounting a gun. If the butt strikes the shoulder low and the anxious trigger finger fires the piece, nine times out of ten you will miss your bird because of high shooting. If the butt strikes low as mentioned, a full pistol or semi-pistol grip will raise the gun and can be so designed to hit the shoulder properly with the same hand movement which placed it low with a straight grip.

I know you will have the comb on your mind by now and be asking how come. Many shooters of nervous temperament never make any contact whatsoever with the stock except by the two hands and the shoulder. In many cases these guns stocked to hit under hunting conditions are not right for shooting clay birds by the same individual, unless deliberate aim is taken over a comb of proper drop. On clay birds no excitement is present and the nervous man can cheek the stock. The cause usually is simply that the gun may be right when excitement is present and wrong when shot at clay birds.

The grip is one of three places with which most untrained shooters aim and for that reason is too important to cast aside as merely something (*Continued on page* 34)

WATCH HIS SPEED!

BY FRANCIS E. SELL

I HAVE HEARD SOME FINE arguments on the speed of deer in the woods. Those arguments were only excelled by the one about rapid fire. How many shots should a hunter be able to make on a deer jumped in the woods, where the game is visible for fifty feet before it regains the security of protective cover?

With this in mind, I have been hunting deer with a stop watch. I wanted to establish the average speed under actual hunting conditions. I was not greatly interested in the top speed of the game for two reasons. First, few deer are put up at top speed; second, the forty-five mile top speed of deer under favorable conditions is decidedly not an indication of what they would do in heavy cover. Woods speed was what I wanted. For, after all, it is in the forests that most deer are killed. I felt that if I timed the deer and correlated this with rapid fire under field conditions, something of interest might be learned.

In establishing the speed of deer, several factors were hard to keep under strict control. I found that the seasons condition the speed to a certain extent. During the running season, bucks were slow to leave the cover, and were more curious than apprehensive. Those timed while their horns were in the velvet were careful of their sensitive antlers, and were somewhat slower than they would be during the autumn hunt. But in the main I secured some worthwhile data.

There are four paces a deer uses in eluding a hunter; a creeping walk, trot, high bouncing jumps, and a short bouncing run. They are progressively faster in the order named. These paces, incidentally, are under the control of the hunter to a certain extent. It came to my attention time after time, while hunting with a stop watch. When I made a careful stalk with a minimum amount of disturbance, the game would leave the cover more slowly. A careless approach, and they got up wilder and faster. Of course in more open ground they were inclined to get up farther away, but move slowly and cautiously.

A two point buck creeping out of an opening through high fern covered one hundred feet in twenty seconds, at the rate of 3.4 miles per hour. A spike jumped on a brush ridge did slightly better, covering fifty feet in five seconds before he gained the security of a clump of thimble-berry. This at a trot. Rate of speed 6.8 miles per hour. A three pointer really extended himself, making seventy-five feet in five seconds, with those high deceptive bounces. Rate of travel 10.22. Another forked horn I jumped on a fairly open ridge covered two hundred feet in eight seconds. He ran down a steep hill. The cover was quite a distance away, and he wanted to get there after our surprise meeting on the ridge. Skimming over the ground in short, close bounces, he made it at the rate of 17.04 miles per hour.

Those speeds are representative of fifty-five deer timed, ranging from yearling does to bucks which have survived several hunting seasons. Variations were slight. It may be that other hunters would find slightly different results, especially if they timed deer in territory which is heavily hunted during the open season by an army of riflemen. Ground which is not hunted often would give other figures. In the first the speed of the game would be higher, and in the second it would probably be lower. In the cover where I timed the deer, there has been consistent hunting each season, though it is not overhunted.

In examining the figures for the three deer moving faster than a walk, we find a spike buck visible for five seconds. A three pointer was visible for five seconds also. A forked horn was visible for eight seconds. It would appear that a hunter would have equally good opportunities shooting at this game, but this is hardly so. While they were visible

for almost the same length of time, the variations in speed must be taken into consideration. The range at which they were jumped is also a factor. The spike was jumped at fifty yards, the three point buck at seventy-five yards, and the fastest one, a forked horn, at sixty yards. Everything considered, the easiest shot would have been at the spike, the hardest shot to make being the forked horn running down hill.

After timing the deer I wanted to bring the findings into focus by shooting rapid fire under actual hunting conditions. This would tell me something of woods accuracy and speed of fire in relation to the speed of deer.

I decided against using the conventional black and white target for this test, and after consideration settled on brown cardboard as being more in keeping with the color of a deer. I placed the twelve inch targets in the woods. Some were splashed with sunshine, others were in deep shade. They were tacked to the sides of windfalls, placed on trees, up hill and down. In the nature of things, the targets fired at the longer ranges had the better light as they had to be placed in more open country.

The twelve inch circle would cover the vital area of a deer. A hit any place on the target I considered venison. Four-shot groups were fired. This is about the average number a hunter will obtain on game jumped in thick brushy cover.

Here are the results: Target No. 1, four hits in seven seconds; extreme spread six inches. Three shots grouped near center. This target placed across a small canyon, the light subdued by a covering of fir and hemlock. Range, fifty yards.

Target No. 2, four shots, one hundred yards, eight seconds. A freak group turned up on the first string; a

three and one-half inch print at one o'clock, just slightly off center. On the re-run I obtained three hits in seven seconds. The group was well scattered, measuring six and three-quarter inches, with one shot out at twelve o'clock. Sitting at the same range produced a five inch group excellently centered: four hits in thirteen seconds.

Target No. 3: one hundred fifty yards sitting; three hits, nine inch group. One shot out at eleven o'clock.

One other course was fired, shooting one shot to a target. Four targets were placed between fifty and a hundred yards. They were from ten to thirty feet apart.

AFTER CLOCKING THE GETAWAY OF FIFTY-FIVE WHITETAILS, A VETERAN HUNTER OFFERS SOME POINTERS ON RUNNING GAME

This course was fired standing. Time, nine seconds. First two targets hit, third one, at an estimated distance of eighty-five yards, was a miss. The fourth and last one at a hundred yards was a hit.

In all the standing shooting the rifle was carried with three cartridges in the magazine and one in the chamber. It was held as one would carry it in hunting in the woods. Being a right handed shooter, I carried it in my left hand. At the command, "Mark", it was snapped to the shoulder and the firing begun. Every effort was made to simulate firing under actual hunting conditions. All targets were made with a Winchester lever action rifle; one with which I hunt each fall.

In considering these targets, one logically asks just what this woods accuracy would produce in the way of game. That shooting has produced six deer for me with eleven shots. The only difference was in the ranges. Most of the deer were killed at around sixty yards, none over a hundred. I have killed quite a number of deer at longer ranges, but such shooting is usually more deliberate, and can hardly be classified as rapid fire.

Thus the two pointer visible for twenty seconds at a hundred twenty-five yards would afford the hunter ample time for a slow deliberate shot. But the spike visible for five seconds could have easily caught the hunter off-guard. The time element would be working against the rifleman here. There would be no time for any deliberate shooting.

I am quite sure that if I were taking this deer, I would have gambled on two shots. Picking the most open ground which I knew he would cross, I would have tried to make my kill there. I think it would have been a reasonably sure thing at fifty yards. This is true of the three pointer also, covering seventy-five feet in five seconds.

The two pointer jumped at sixty yards and visible for eight seconds would have taken all four shots, so far as time is concerned, or three shots at the very least. Any misses on this deer would more than likely be caused by over-shooting. A deer bouncing down hill drops away from the line of sight fast, and the rifleman with slow reflexes is not apt to get his shot off in time.

In considering the problem of deer and rapid fire, it is easily seen that deer are comparatively slow. This is no cause for complacency on the part of the hunter. The short space which they cover before disappearing makes them a sporty target. And whether the hunter uses the short time a deer is visible for two or five shots will depend a lot on how smoothly he can get into action, and with what accuracy.

The JOHNSON L.M.G.

By C. F. Vernon

Photos from Johnson Automatics, Inc.

THE QUICK-FIRING WEAPON of rifle caliber, familiarly known as the "machine gun," has been with us in various forms since the American Civil War. Its progress from the multi-barreled, field-piece type of weapon, best known in the form of the Gatling Gun and the French Montigny Mitrailleuse, has been characterized by an ever-increasing trend toward lightness and mobility. With this increasing lightness has come a change in the military concept of the use of such weapons.

The French lost the war of 1870 against Prussia in part at least because they treated the Mitrailleuse not as an infantry accompanying weapon but primarily as a piece of artillery. They even employed it in some instances against opposing field guns at artillery ranges. The infantry rifle cartridge of the period was not designed to take the place of an artillery shell, as the French found to their bitter disappointment. So, for the next thirty years the thus discredited machine gun was very largely neglected by the leaders in military thought. One or two of them were attached to the average regiment, intended to be employed if there should arise what was considered a fitting occasion for their use.

During this period the transition took place from machine operated quick-firers to the true automatic gun, pioneered by Hiram S. Maxim, John M. Browning, and the Odkolek and Hotchkiss. These last two were both gas-operated guns, as was the Colt-Browning model of 1895 Automatic Gun. Several variations of the short-recoil Maxim by Vickers and the German arms center of Spandau also came into limited use.

Johnson light machine gun and Reising .45 are standard Marine Corps equipment

The Japanese-Russian War of 1904 gave some indication of the future of machine gun tactics. On several occasions front-line machine guns were used in this conflict against mass formations with excellent results. Even then, however, little attention was paid to these isolated instances by military tacticians the world over.

With the opening of the

First World War, machine guns came at last into definite tactical use. The Germans had far more machine guns than any of the allied nations, and in the type of trench warfare that developed, they began to use them with great effect. The machine gun of this period had descended from the field-piece concept to a tripod-mounted heavy weapon, part-way between a light field piece and an infantry arm. They were classed as "small arms", but averaged between 50 and 150 pounds. They were mostly water-cooled and belt-fed. They were assigned to the infantry battalion or regiment and were emplaced generally to the rear of infantry rifle company positions, supporting a front line by flanking and enfilading fires whenever possible. Long-range barrages up to ranges of 3000 meters became common practice with these guns.

There were also developed during 1909-1917 a few so-called light machine guns, such as the Madsen, the light Hotchkiss, the Benet-Mercié, Lewis, Chauchat, and other similar weapons. These arms varied in weight from 20 to 35 pounds, and usually fed from a strip, drum, or detachable box magazine with a capacity of between 15 and 50 shots, a cyclic rate of 400-600 rounds per minute, and a deliverable rate of 100-250 per minute. These weapons were supposed to accompany the infantry to supply direct automatic fire in the rifle platoon. During the war perhaps the best-known of these, the Lewis, was developed by Colonel Lewis of the American Army and adopted by the British. This was a 25-pound gun with an air-cooled barrel and a light bipod mount. Most of these so-called light machine guns used the bipod-type mount, although a few could be fixed on a light tripod. They supplied the only link between the heavy machine gun and the bolt action rifle which the infantrymen could hope to carry with them.

Near the close of the War the Browning Automatic Rifle made its appearance. This weapon was fed from a 20-shot box magazine, could be fired either full or semi-automatic, and weighed just under 20 pounds. Thus the World War ended with heavy machine guns beginning to give way to a more mobile automatic shoulder arm.

Conditions change from war to war. In the period between the First World War and the beginning of the present one, a number of new "light" machine guns were developed. Among them are the much publicized British Bren with a weight of approximately 20 pounds, the German Solothurn weighing 26 pounds, the 20-pound light Hotchkiss, the 22-pound Japanese Nambu, and the 20-pound Mexican Mendoza.

It was apparent from the attack on Poland that this was to be a war of movement, a war of mechanized forces, deep and rapidly changing fronts, entirely different from World War I. Novel techniques of attack, parachute troop landings, commando and raider forces, guerrilla warfare, fast-moving motorized attacks, dive-bombing and ground strafing all made the heavy machine gun much less adaptable to actual battle conditions. The light machine gun has therefore become the predominant infantry arm, the key weapon of the infantry squad. An automatic shoulder weapon firing rifle-caliber ammunition and weighing 12 pounds

The Johnson light machine gun can be loaded through the loading gate on the right side with standard five-shot Springfield clips, as well as with 20-round magazines

Captain Melvin Johnson, inventor of the Johnson l.m.g., shown releasing catch preparatory to removing empty 20-shot magazine. Other hand cocks bolt. Empties can be removed and full magazines attached with one hand

The Johnson disassembled for easy packing by parachute trooper

constitutes a distinct improvement over a similar weapon weighing 20 to 30 pounds for rapidly-moving combat, even as one weighing 20 to 30 pounds proved tactically superior to one weighing from 50 to 150.

The most recent light .30-06 automatic is the Johnson Light Machine Gun or Machine Rifle developed during 1940-41. This weapon was originally adopted by the Netherlands Indies Army and by the U. S. Marine Corps.

The Johnson Light Machine Gun brings a number of new features to the high-power military caliber light machine gun or machine rifle field. With an overall length of 42 inches, and chambered for the powerful U. S. .30-'06 cartridge, its weight of 12½ pounds is but little more than that of a shoulder rifle, although it fires full automatic at a cyclic rate of approximately 550 shots per minute. It uses a detachable box magazine, with a horizontal single-column feed, engaged in the magazine support on the left side of the gun. This magazine, holding 20 cartridges, may be directly loaded with either single rounds of loose ammunition or from the standard Springfield type five-shot clips, while detached from the gun. The rounds are held in the box by a leaf-spring latch which is cammed open to engage the magazine support in assembly. The rounds are held in place by feed lips in the receiver and by the magazine cover ramp. When the magazine is in place, the gun can be loaded directly with either single rounds or standard Springfield 5-shot clips through the loading gate on the right side of the action. This gives the weapon a flexibility that has not been attained by any other similar weapon to date, in that .30 caliber ammunition from almost any U. S. packing can be immediately loaded either into the detached magazine or directly into the gun while it is in position to fire. The gun can be reloaded when partially empty without opening the breech or removing the magazine. Shells may be removed through the loading gate while the magazine is attached and replaced with different types of ammunition such as armor piercing and tracer.

This weapon is of the short-recoil type. The eight-lug rotary bolt is cammed twenty degrees from the locked to unlocked position during the half-inch recoil of the barrel. Recoil momentum and to some extent residual pressure effect the extraction and ejection of the empty shell. The straight-line mainspring behind the bolt is thus compressed.

An outstanding feature of the Johnson is the fire control system. Due to the heat developed in firing an air-cooled gun full automatic, it is necessary to hold the bolt open between bursts to avoid "cooking" a round in the chamber. If a cartridge is left in a light machine gun chamber after firing one hundred or more rounds at a high rate, the cartridge will fire due to the heat within ten or fifteen seconds. An automatic shoulder weapon which is to be fired semi-automatic as well should be cocked closed to avoid disrupting the aim by a moving bolt, a distinct disadvantage impairing the accuracy of delivered fire in guns of this design. Semi-automatic fire does not heat the barrel sufficiently to "cook" a cartridge, so the Johnson is designed as follows:

To fire automatic, turn the change lever to the rear, open the bolt, and then pull the trigger. The gun will fire 'till the trigger is released or the magazine emptied. The gun is cocked with the bolt open.

To change to semi-automatic, turn the change lever to the front, thus allowing the bolt to close and lock. The trigger may then be pulled as in any rifle, firing one shot for each function of the trigger. The gun is cocked with the bolt closed. This gives the Johnson all the accuracy of an ordinary semi-automatic rifle.

Another novel feature of the Johnson, found elsewhere

Captain Harry Torgerson, of Solomon Islands fame, firing the Johnson after a parachute descent. Gun was in operation within two minutes of time Torgerson jumped from plane

only in the German MG34 Dreyse-Solothurn L.M.G., is the straight-line butt-stock and high line of sight. This straight-in-line design reduces climb in automatic fire. The high sights reduce heat mirage, prevent the barrel from obscuring a hastily picked target, permit the gunner to see the strike of a burst below the line of aim, and increase the effective scope of the battle-sight setting. Several tests indicate that the Johnson front sight is unusually rugged. The Lyman-Johnson folding rear peep sight has two automatic fire apertures, one for long and one for average combat range. For accurate rifle-fire adjustment the sight may be moved in half-minute clicks for elevation and windage. An elevation scale marked on the peep body is easily read when the sight is folded.

The Johnson is quickly field-stripped by disengaging the barrel latch with a bullet, pulling out the barrel, and pulling off the thumb-latch engaged butt stock. The magazine support is instantly removed by pressing the cover and sliding the support rearward. The bolt assembly is withdrawn after sliding off the spindle-locked operating handle.

Packed in a parachute-trooper's pouch, the barrel, receiver, butt unit, and magazines constitute a package less than two feet long. Marine parachute troops have successfully jumped with this weapon, thus eliminating the necessity of initially employing a cargo parachute for .30 caliber weapons. In the original test jump Captain Harry L. Torgerson, USMCR., First Marine Parachute Battalion, later of Solomon Islands fame, landed, unhitched, put his Johnson together, and prepared to fire within two minutes after leaving the door of his airplane.

From the operator's point of view the Johnson L.M.G. is a semi-automatic shoulder rifle, a light automatic, and a bipod-mounted machine gun, all in .30-'06 caliber. Back in 1940 at Wakefield, Coast Guardsman Paul Goulden scored in practice a 77 out of 80 with a Johnson L.M.G. offhand 16 shots at 200 yards, surprise fire. It is a fast-handling shoulder weapon. At 300 yards prone with bipod the Johnson has fired 60 rounds in 60 seconds on the 20-inch bull "B" target, with 48 bullseyes and 12 "fours", grouping in 26 inches. It also made 52 out of 60 bullseyes at a rate of 42 shots per minute at 300 yards on the "B" target. Marine parachute troops peppered a tank target at 1000 yards with their Johnsons.

The Johnson has frequently been demonstrated from standing without sling, firing 20-shot automatic bursts while holding the gun as a pistol with the right hand only, arm extended. With a little practice it can be effectively controlled from the shoulder in the offhand position without support.

Prolonged automatic fire from the bipod indicates that one operator can load and fire this weapon effectively at the rate of 100-150 shots per minute. The highest rate sustained by a two-man crew was one hundred rounds in eighteen seconds, or a rate of 330 shots per minute. Two hundred rounds have been loaded and fired in 42 seconds. Twenty shot bursts have been fired into 6 x 6 inches at 1000 inches.

Endurance tests indicate that this gun can fire series of 100-300 rounds at high rates (75-250 per minute) without serious injury to the barrel from overheating. In one test the Johnson fired over 600 rounds in six minutes before seriously injuring the barrel. Modern combat targets are too fleeting for extensive sustained fire. Effective fire in World War II is that which can be applied suddenly and intensively before the target can reach cover or move out of range.

Like its predecessor, the model 1941 Johnson production semi-automatic rifle, which in five Dutch endurance tests of 15,000 rounds each had averaged less than one malfunction per 1000 rounds, the Johnson L.M.G. is built to stand plenty of punishment. Its easy handling and reliability even when reduced to hand operation from excessive sand and mud is a characteristic of the model 1941 Johnson design.

As a super light-weight machine gun the Johnson lacks the capacity for sustained fire of the heavy, water-cooled gun of World War I. Its mobility, flexibility, versatility, and adaptability to a wide variety of combat situations prompt some observers to believe that such a weapon may one day supersede the common rifle. Its superior mobility makes it the ideal squad automatic. Employed by trained two-man teams this weapon is especially effective. In short, it combines the features of a rifle, a semi-automatic rifle, a sub-machine gun in one 12½ pound, one-man, high-power .30-'06 shoulder weapon.

Lighter than the Bren or the Browning Auto-Rifle model 1918A2 by nearly eight pounds, one half as heavy as the German MG34, and nine pounds lighter than the Japanese Nambu, this Yankee-invented Johnson, nicknamed EMMA by Marine Corps parachute troops, can be put into action as fast as a rifle, and faster than any other L.M.G. Unique in the field, the Johnson has in fact no current counterpart. It is in a class by itself, best described as a light machine rifle. Without doubt the Johnson is the last word in the one-man, high-powered automatic of 1942.

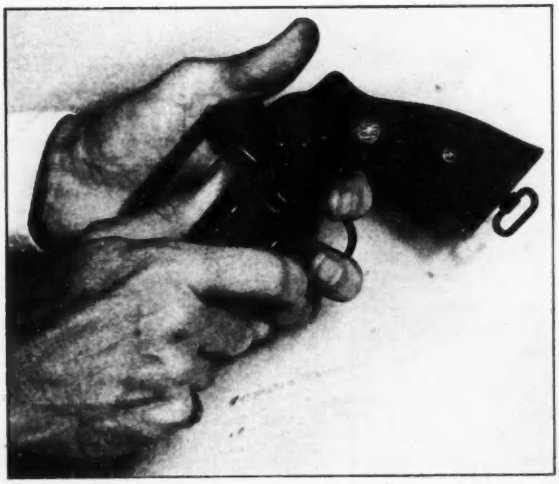
Picking a Used HANDGUN

By PHIL SHARPE

IT IS DOUBTFUL if the used gun situation in the United States was ever more of a problem than it is today. World War I conditions are not to be compared with those of the present time. Never have there been so many people in the market for guns and never has there been such a scarcity. New guns are just not to be had. Naturally, this fact has brought forth guns on the used market in every condition of repair and disrepair. Unless you know your guns you can be very thoroughly stuck; spending money on a worthless item or still worse, buying a gun that is actually dangerous to fire.

My article some months ago, "Bargain or White Elephant?" (February, 1942) attracted considerable attention, but it was pointed out that little discussion was made of the handgun problem. There certainly is the need for much the same type of information on pistols and revolvers. For one thing, war industries require guards and many guards carry handguns. The plants may not be able to supply these—not because of cost but because they can't get them. That leaves countless thousands of guards, in one group alone, draining the used handgun market. Individuals desiring a handgun must shop around and be prepared to pay the owner's price when they find what they are looking for. If you have had only slight experience with firearms, I take it you'll need some help; if not in securing dollar value, at least in determining what you want.

A letter reached me a short time ago and is so pathetic that I am quoting a couple of lines from it. The writer complains: ". . . As a defense plant guard I have a priority rating . . . we are compelled to buy our own guns. . . . I purchased from a pawnshop a Colt Official Police revolver in .38 Special for $55 . . . there is a bad pit in the barrel, a half inch from the muzzle, an inch long, and half way around the inside of the barrel . . . the pawnbroker told me that all Colt revolvers would pit at the muzzle like this after a dozen shots and that it didn't hurt them any. . . ."



Above: Worn crane or cylinder pins may be detected by twisting cylinder of revolver with crane swung out. Avoid any gun showing excessive looseness of this sort. Repairs or new parts will be expensive

Right: Worn cylinder pin may also be detected by twisting with crane closed. Then snap gun and hold trigger back while twisting cylinder. Looseness may mean faulty alignment of chambers and barrel

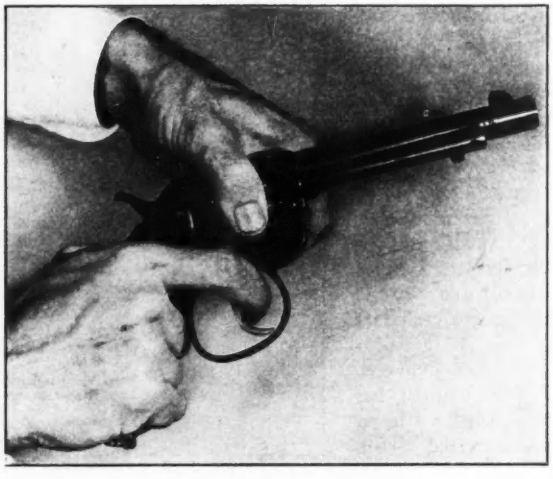
Shades of Samuel Colt! I wonder what my good friends at the Colt factory would say to this comment on their pizzles! Perhaps the five Colt guns I own are no good. They have all been shot from several hundred to several thousand times each. Must be bum barrels—they didn't pit at the muzzle. And this chap paid $55 for his gun! Last retail price I had from Hartford on this model was $33.25 *new*. That guard paid $21.75 more than the price of a new gun.

To prevent misunderstanding, I'd like to point out here that all guns are not being offered to you in an effort to gyp you. Most sellers are probably honest, but some of them are enjoying the opportunity of finding a market at a good price for a gun they couldn't give away a couple of years ago. Avoid that gun and the seller.

Telling a chap what not to buy is a ticklish job, and let me state that thousands who will read this know their guns. They know how to pick. But the field has many newcomers. For that class this dope is being passed along.

My private classification of handguns includes: Target Guns, Working Guns, Sporting Guns, and Bureau Drawer Specials. The first class is a precision instrument, designed for a particular job of punching holes in paper. It should be equipped with adjustable target sights. The second class is purely a tool. This includes holster guns of service type—fixed sights—for police, guards, and so forth, plus the special defense guns with short barrels designed for concealed use in pockets or hidden holsters.

Class three includes the low priced .22 and .32 types used for general sporting purposes. They can have fixed sights, and are used for general plinking or shooting at



targets by the chap who isn't interested in standard match targets and standard shooting distances.

Class four is the one I associate with the familiar red "Poison" label. Most of these are foreign imitations of American guns, fine finish, but of junk materials and workmanship—usually unsafe. New ones are rarely found, but plenty of these are now being dumped on the market in "good as new" condition—which isn't much. Their owners bought them for the protection of the home—loaded them, hid them in bureau drawers, and forgot all about them. Which is probably very fortunate. Don't buy this trash *at any price!*

The problems involved in the purchase of a good used handgun might be summed up as follows:

1. Shall I buy a revolver or automatic pistol?
2. What caliber?
3. How can I tell what it is worth?
4. How can I tell if it is in good condition?
5. What make shall I buy?

First. Revolver vs. automatic. In the hands of the average man or woman with no practical firearms training, this writer believes that the average automatic is unsafe. With a couple of exceptions, automatics are of the so-called "hammerless" type. This usually means that they have a hammer concealed inside where you can't see or get at it. It is usually cocked—which places the health problem on its "safety."

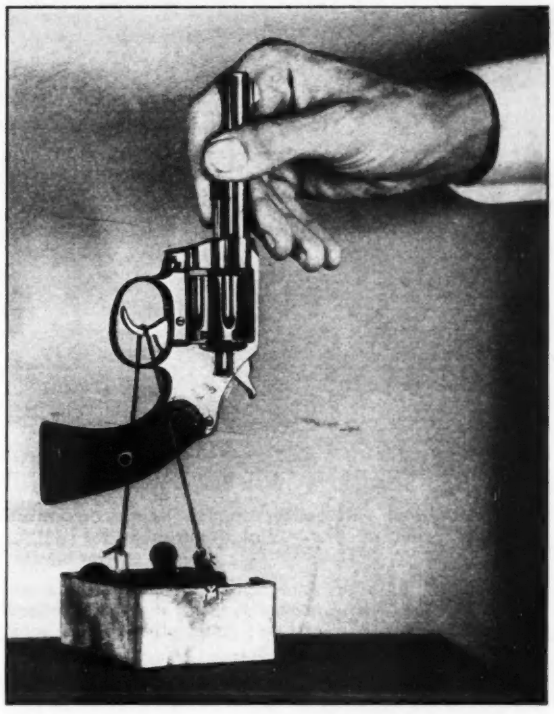
Many safeties when "on" do not lock the hammer—they lock the trigger, and if the sear notch is worn they can be accidentally discharged with the safety properly locked. Exposed hammer guns can be usually carried with a cartridge in the chamber, but with the hammer down. This is safe in some guns such as the Army .45 automatic. Since the firing pin is shorter than the hole in the breech block, it does not protrude through to contact the primer with the hammer down. When this hammer falls from the cocked position, the inertia causes the firing pin to fly forward to discharge the cartridge in the chamber.

An autoloading gun is not a good one for a beginner to start with unless he uses it "single shot" until he grows accustomed to handling firearms. It is difficult for a beginner to realize that the autoloading pistol can be made ready to fire again so rapidly. He is apt to leave his finger on the trigger after firing a shot and a sudden muscular jerk can then cause another shot—and trouble!

You need not condemn all autoloading pistols, however. The majority of all such guns give no trouble if they are properly cared for and if they are fed good reliable cartridges.

Second. The next most popular subject is no doubt "best caliber." The answer to this question revolves around the use the owner has for his gun. Usually a guard, police officer or service man of any type would feel he needed a large caliber arm. Likewise a man purchasing a gun for home protection usually feels that "the bigger the gun the better the protection." I don't always agree.

A large caliber gun may be all right if the user is a trained shooter, not scared to death of the "big gun" and able to hit what he aims at with a fair degree of regularity. Otherwise a small .22 is much better. Don't pass up a good little .22 pistol or revolver with a shrug and the thought that it is too small for serious use. I know two Marines who took .22 pistols to the South Pacific with them. If you do get a .22 look around for high speed cartridges. They make a mighty efficient load for *any use*.



Trigger weights are easily improvised. Gun should stay cocked with three pounds in box, snap with not more than five. Beware of dangerous "hair triggers." This gun is unsafe, failed to hold three pound weight

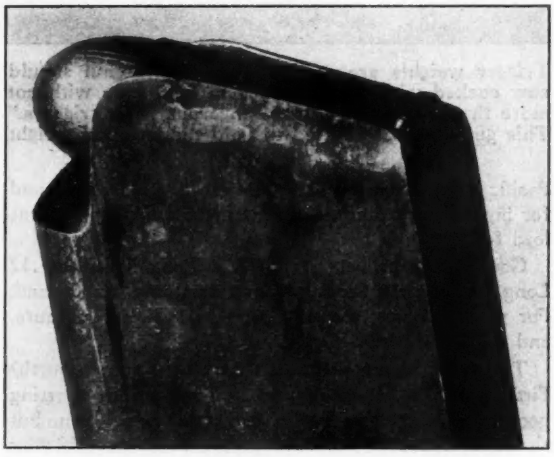
Good target calibers are the .22 Long Rifle, the .32 Long, and the .38 Special. Cartridges only, understand. For working guns, the .38 Special, .38 Super, .45 auto, and other big bores.

Third. How can you tell what a used gun is worth? First, find the last retail price. Your nearest sporting goods store may not have a new gun to sell you, but they can always give you the price—no charge. If your proposed gun is in every way as good as new, in normal times it should be worth from 75 to 85 per cent of its new price. If in good condition, perfect inside, mechanically OK, not over 75 per cent is a fair price to pay. If the gun shows considerable wear outside and some wear inside, two-thirds of its original price is enough. But remember these are not normal times and prices may vary with your pressing need of a gun. If the gun is in poor mechanical condition, don't buy it at any price. So you plan to send it to some reliable gunsmith for repairs? Better think again. Most of the top men in this field are doing war work. They have no time to handle their routine business. Remember that.

Don't condemn a gun just because it isn't new and the very latest model. Just for example the former model of the Colt Woodsman .22 pistol may still be a good gun although thousands of shots will probably have been fired through any such gun now offered for sale. If your inspection shows the gun to be in good condition, don't let the age of such a Woodsman prevent you from buying it. Even the weight which Colt added to

Your thumbnail will reflect enough light to examine barrel for rust or pits. Watch out also for bulges

If you're buying a .45 Auto, check the magazine carefully. Shy away from any magazine showing cracked or spread lips. This is way magazine should look



the barrel of their new model Match Target Woodsman can be added to your old model if you will wrap some sheet lead or wire solder around the barrel.

Many Colt and S. & W. models of years gone by had round bottom corners on the handle or "butt." Those guns are not considered quite as easy to hold or shoot as the new guns with "square butts." Nevertheless, if you find one in good shape and if you or a friend is handy with woodworking tools you can carve out a pair of square butt stocks that will fit your round butt revolver.

Fourth. How to judge the condition of a gun.

Outside finish—The exterior finish has no effect on the shooting of a gun so if you are only looking for a holster "tool" you need not be too particular on this point. Small spots where the bluing shows wear can be retouched with advertised "rebluers" but don't plan on doing an entire gun. Rebluing an entire gun is a good gunsmith's job.

The finish of a gun will give some evidence of the care the gun has been given. If the blue has just worn off where gun is touched by holster or hand and no scratches appear, you can feel somewhat assured that at least fair care has been given it.

Stocks—Years ago almost all revolvers were sold with hard rubber stocks. For the last ten or fifteen years stocks have usually been made of wood. Look at the checkering on the gun stocks for signs of hard use or gun abuse. Broken checkering or broken stocks usually point to a hard used gun. Diamonds worn smooth could be from much handling or shooting. Split stocks must be replaced in order to do good shooting with that gun.

Barrel and Chamber—Open the gun and make sure it is not loaded—if you find it loaded take the cartridges out—and while closing, give the man who handed it to you a short course in safety rules. Slip a small piece of white paper behind the breech end of barrel. Now look down the barrel from the muzzle.

Rust or pits show up in streaks or spots. If located near the breech of barrel, light rust or shallow pits will affect accuracy very little. If located near muzzle they will cause inaccuracy. Unless *very light*, rust cannot be removed without leaving pits behind it. Allow no one to convince you otherwise.

If you see what appears to be a shallow ring around the inside of the barrel, inspect it closely for the barrel may be bulged. Run your fingers up and down the barrel where the bulge seems to be and if you feel the bulge, give up all thought of buying the gun unless a new barrel is fitted. Nothing can repair a bulged barrel.

Reflect light through the chamber (either in revolver cylinder or in breech of pistol barrel) and inspect for rust and pits. Guns with either rust or pits in chamber will give trouble when fired cartridge cases are to be ejected and this in an autoloading pistol is fatal to proper gun functioning. Guns of .22 caliber are particularly subject to this type of malfunction. The only satisfactory repair consists of new parts.

Hammer—Cock the revolver and push the firing pin through its hole in the breech block. Look the nose of the hammer or firing pin over closely to see it is not broken, cracked or rusty. It should be smooth and round in order not to puncture the case rim or primer.

Now hold the revolver so you can see the hole through which the hammer protrudes to fire the cartridge. Pull trigger and hold trigger to the rear. See that hammer nose protrudes approximately one-sixteenth inch. If it doesn't, the nose has been broken off and you can't fire the gun until it is replaced.

The only way to inspect for a broken firing pin on a pistol is to dismantle the gun and see that the pin is all in one piece.

Cylinder Locking—See that gun is empty. Pull trigger for double action shooting and make sure cylinder revolves. When the hammer falls, hold trigger back and try to revolve cylinder. Cylinder should be firmly locked in position when trigger is in rearmost position. If you find otherwise don't buy the gun.

Safety—The safety on a revolver is not the type you engage to prevent firing when trigger is pulled. This "safety" is the double action feature which is a part of modern revolvers. There is a safety however on the majority of modern revolvers to prevent the gun being fired unless the trigger is held back as in actual firing. A revolver without this feature is dangerous to carry or handle as a smart tap on the hammer spur will fire the

gun if a cartridge is in the chamber under the hammer. Check for this feature by holding the gun where you can see the hole through which the hammer nose must protrude to fire the gun. *Keep finger off trigger,* pull hammer half way to rear by pressure on spur from thumb and then slip thumb from hammer spur and allow hammer to fall forward. If you see the hammer nose appear through the hole, the gun is either in need of repair or it was not made with this safety feature.

Some automatics have several safeties—test them all. See that gun is empty, then close slide and cock gun. Engage one safety after another and each time try to pull trigger. Give a good hard pull on trigger. After each attempt to pull the trigger, disengage safety and pull trigger again. Now the hammer should fall, proving that the gun was cocked and that the safety did work.

Don't forget to test the "grip-safety" if the gun has one.

At this same time test to see if the disconnector works. That is what keeps an autoloading gun from being an "automatic." To test, hold the empty, cocked gun in shooting hand, finger on trigger. With the other hand draw slide to rear approximately one-quarter of an inch. Now squeeze the trigger and allow slide to go forward. If hammer falls, the disconnector is not working properly and must be replaced. If hammer does not fall, release pressure and pull trigger again. Hammer should now fall proving that no safety was engaged and that you were actually testing the disconnector and not a safety.

Recoil Plate—Many guns have a hard plate in the rear of the frame which is drilled with a hole through which the firing pin or hammer nose protrudes when trigger is pulled. This plate sometimes cracks and then must be replaced. Check for this.

Ejector Rod—If your proposed purchase is a revolver, check the ejector rod. This rod must be straight or you will have trouble removing cases from the cylinder chamber. To check, swing cylinder out of frame and push rod as you would to eject fired cases. If rod binds at any point have it straightened before purchase. This is one repair almost anyone can make with a light hammer and a small anvil. Tap the rod lightly where necessary and the fault can usually be corrected without much trouble.

Magazine—Practically all autoloading pistols are loaded from a magazine and these magazines are the direct cause of more jams than any other one part. All magazines are carefully made, especially as to the space allowed between the top lips. Too much space at that point, or too little, will cause jams, so check any magazine carefully on this point. Reject all magazines that show cracks or where there is evidence that the lips have been bent by former owners. Compare used magazines with ones you know to be new or know have been used and did not cause jams. Make an actual firing test if possible. Unless the magazine is badly out of shape it does little good to try it in a gun while working the slide by hand. This action is so much slower than when actually firing that little can be told from such a test.

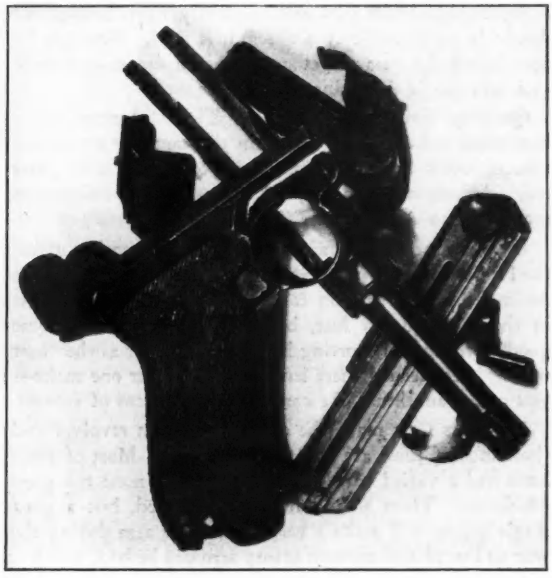
Does Not Stay Cocked—This fault can occur in either a revolver or automatic although it is more common in the latter.

To test for this fault in an automatic, first remove magazine and see that chamber is empty. Have slide in forward position and gun uncocked. Hold gun as for shooting except lower with elbow at hip. Pull back on trigger firmly and retain pressure. Then with other hand pull slide to rear as fast as possible and when slide reaches rearmost position let it slip from between thumb and finger and return to its forward position. This approximates actual firing action. Now release pressure on trigger and immediately pull the trigger again. If you hear the hammer fall the gun stays cocked, but if no hammer fall is heard the hammer followed the slide as it went forward and the gun must be repaired before it is safe to use. Make this test several times.

To make much the same test on a revolver, cock the gun and then with both thumbs on rear of spur, push forward as hard as possible. A gun with a correctly shaped trigger point and hammer sear will stay cocked no matter how hard you push but a faulty gun will not.

Trigger Pull—Too many people worry about the trigger pull on a used gun and want one as light as possible. For

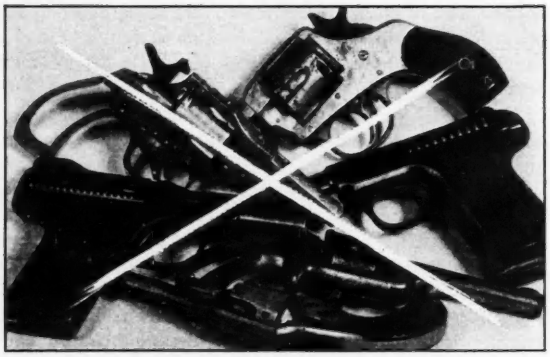
Above: Any handgun, revolver or auto, which can be forced off of full cock any way other than by pulling the trigger is dangerous. Don't purchase it!



Right: Before you buy an automatic of a model you've never before owned, make the seller show you how to take it apart and reassemble it. To the uninitiated, a strange automatic is as bad as a Chinese puzzle

target shooting no trigger pull should be less than three pounds. The .45 should be at least four pounds. On any gun for "service" use, the pull should be not less than four pounds. *Don't buy any gun with a light trigger pull.*

All the above refers to the single action pull—the one you get when the hammer is pulled to the full cock position and then released by pressure on the trigger. The double action pull is where the gun is cocked and then fired all by one long pull on the trigger. All other things being equal between several revolvers, pick the one with the lightest and smoothest double action. If you ever use the gun in a fight, however, you will never know whether the double action pull weighed eight pounds or eighteen. You'll pull the trigger anyway.



Typical "Bureau Drawer Specials." Most guns of this sort are plain junk, and are dangerous to rely upon. Others of obsolete type carry the names of responsible makers, but parts are impossible to obtain

Sights—Old guns were made with narrow front sights for shooters thought they could hold much closer with such a narrow blade. Now we think differently and the sights on a late model will be found from one-tenth to one-eighth inches in width. A gun that otherwise looks like new but which has a narrow front sight is apt to be much older than it appears.

Sights on a blued gun are frequently worn bright and should be recolored before the gun is used. This can be done by smoke on a target gun, heat on target or service gun, and the liquid bluing may also be used.

Question five: What make? Two American firms have been making quality guns in this country for a long time. Colt is 106 years old. Smith & Wesson is 86 years old. A long time to stay in business—it should mean something to Americans.

If you want a good target automatic of another make, the Hi-Standard is fine. Good target pistols and revolvers are made by Harrington & Richardson. Not much else in the super-quality line, but Iver Johnson makes some good working and sporting handguns. So far as the "best make" is concerned there isn't any. I prefer one make—you prefer another. We can both give dozens of reasons.

For years Colt made the old single action revolver and thousands of these are still floating round. Most of these have had a varied career and many are in none too good condition. These should not be purchased, but a *good* single action will make a very fair target arm during the war and until a more satisfactory arm can be had.

Foreign Made Guns—The safest thing is to buy no gun of foreign manufacture. Many thousands of good foreign guns are owned by Americans but just as many have spent good money and received a worthless piece of junk. If you must buy a foreign gun, stick to Webleys, Lugers or Mausers. Some Lugers and Mausers have slots on the rear of their handles. These are to hold a short stock in place. A Federal law now requires registration and payment of a transfer tax of such an arm, when there is "an accompanying shoulder stock with which the pistol may be used."

Many a chap writes his favorite firearms editor asking for a means of identifying a "genuine Luger." As far as I know, there is no imitation. Lugers have been made in several German factories for more than 40 years—but they are all genuine. And all of these factories have turned out some terrible junk.

In the 1920's, thousands of these guns were assembled from battlefield salvaged junk, scrap piles of the first World War and the rejection piles. They were refinished and dumped on the gullible American market. Some were not refinished and were frankly sold as "used." They keep turning up. No set rules for picking the good gun from the junk can be laid down—so better steer clear of them. If you need repairs, where will you get them?

To tell whether a gun was made in America or not requires close inspection as many foreign pistols and revolvers appeared on our market a few years ago which closely resembled models regularly made here in the U. S. Both Colt and Smith & Wesson guns were copied closely so far as exterior appearance is concerned. That is as far as the copying went, however. In workmanship and material these foreign guns are far below the original.

To tell whether the offered gun is of foreign manufacture inspect the name stamped on the barrel closely. If you see *Colt* or *Smith & Wesson* in bold characters closely preceded by the word "For" and the word "cartridge" closely following, the chances are 100 to 1 you are looking at a foreign gun which you should not buy at any price.

Watch out for Bureau Drawer Specials. If a gun is stamped Spain, Belgium, France, or Germany, leave it alone. Most of this stuff is junk. Most of this has a long string of beautiful names such as Venus, Owa, Veritable Express, Trench Model, Diana, Texas Ranger, Princeps, Best, Colonial, Liberty, Super-Squeezer, Reliable, and so on and on. Most of this junk was made for pawnshop and mail order sales—until Uncle Sam stopped the mail shipments.

Take one case in particular. A certain importer offered a .25 automatic pistol at $9.95 postpaid in a series of magazine advertisements. A bargain? Customs records revealed that import. A quantity of these guns, made in Spain, cost that importer 92¢ each at the Spanish shipping port. How much gun can be made for that amount? No wonder it had to be made of cast metal!

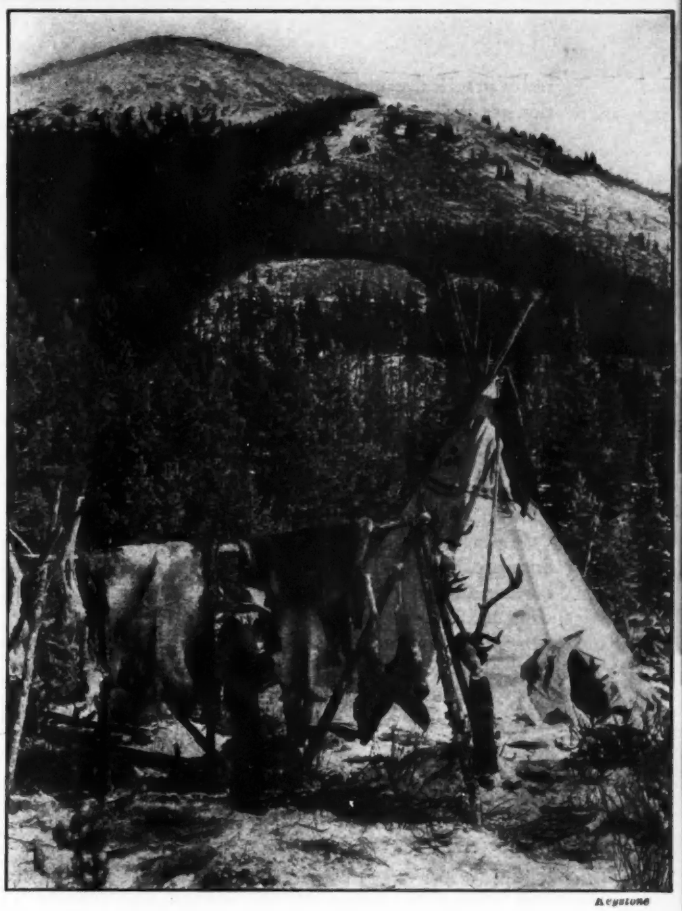
I had one of these guns—a .25 automatic. Excellent finish, that's all! Barrel crude and rough, fit of parts sloppy, action as simple as it could be made. Frame and slide of cast malleable iron—not forged steel. Springs—cheap steel wire. Action pins softer than a nail.

I tested it in an improvised "bomb proof" made of plank lumber. On the fourth shot the slide stop sheared off and the slide blew off, making a severe dent in the heavy plank covering. My complexion would not have been improved if I had been sighting that gun!

(*Continued on page 34*)

Your WOODS CAMP

By Willard L. Mullen



IF YOU HAVE SET ASIDE those vacation weeks for a hunting trip and convinced the family that an honest-to-goodness he-man camp in the wilds, "roughing it" for a couple of weeks, is just what the doctor ordered, then some tips on your self-installed hunting camp are very much in order.

Camping has a glamour all its own, and when you combine it with the hunting angle, you have something. But, of course, that something depends on your preparation and your equipment, otherwise it will drive you back to the comforts of home and the easy chair with a "never-again" declaration.

The casual week-end camper who throws down his bed where highway crosses creek has little or nothing to worry about. When and if things get too rough for him he can get back to his inner-spring mattress in short time. But the man who takes canoe, pack string or pack board and wanders off the beaten trail in the hope of finding better hunting and fewer hunters, has a situation quite different.

In my opinion the most important single item of equipment is your bed, my contention being that a man can go through the most trying of hardships in the daytime, provided he can roll into a warm, dry bed at night and get a comfortable night's sleep.

If your budget allows, the question of "what bed" is easily answered. Simply contact a reliable sporting goods dealer, and pick out a high quality sleeping bag manufactured by a reputable firm. If sub-zero weather is anticipated, the addition of an all-wool blanket of the single type is sometimes desirable. Folded once, this will slip into the standard single bag very nicely. It is also well to secure the blanket to the lining of the bag with a few safety pins around the fold and the lapping ends of the fold. This will prevent the blanket from bunching up.

Most of these bags are not only water-proofed but also equipped with a compartment into which an air mattress can be inserted. Such an addition is quite practical and adds to the comfort. Bags are obtainable with a number of different fillers. Among the best are down, kapok and wool. Any of the three are excellent.

If, however, you are one of a great many who have a longing to get out under the stars occasionally but cannot afford the luxury of a good bag, don't despair. You can still camp in comfort as far as the sleeping question is concerned, provided you restrict your wanderings to points accessible by automobile or pack string. You absolutely must have a water repellent tarp of sufficient size to go under the bed and fold back completely over it. There should also be sufficient lap on each side to fold back under the bed.

In moderate temperatures ordinary cotton blankets or comforters, supplemented by the tarp, will serve you very nicely, but in really cold weather, wool and lots of it is the only answer. If the bedding closet in your home doesn't hold this, borrow some of the neighbor's surplus stock—and remember to buy your wife a couple of good wool blankets for her next birthday. It is well to remember that this type of bed gets cold and hard from the bottom. Put two-thirds of your bedding under you, and ignore the friends and seeming logic that tell you you are wrong.

Now let's consider the shelter.

The ideal outfit, I believe, would consist of one large wall tent to serve as a cook tent and storage room for essential equipment. As this tent will probably also serve as a place to eat during bad weather or even in early morning or late evening it should, if possible, have walls at least four feet high. In a tent with low walls it is next to impossible for a man to get anywhere near the side of the tent even while seated on a low object.

As a sleeping tent I personally favor the floored umbrella type, principally because they are the most readily set up or taken down of any I have ever used. No lashing stakes are needed for external anchor ropes, except in cases of extremely hard wind. The 8 by 8 foot model of this tent will accommodate two persons as sleeping quarters. Many people are very loyal to the explorer's type. This is no doubt good, and even the humble pup tent is not at all bad.

As we have discussed the cook tent, let us now turn to some of the articles that should be found within the well-fitted camp kitchen. To my way of thinking, the stove is the most important of kitchen necessities. The only

really practical camp stoves that have come to my attention are of the folding gasoline burning line. In choosing one of these be sure that it has burners adjustable for different heats and that, folded into its portable case, no parts of the mechanism protrude in a manner that might welcome breakage. The use of this stove adds the complication of requiring gasoline, but this is not nearly so hard to pack in as might be imagined if placed in flat two gallon cans. Two gallons of gasoline will last a long time if used exclusively for cooking.

The first item in the utensil line that comes to my mind is the dutch oven. Whether or not you are taking a stove the many uses to which the dutch oven can be put justifies the added weight it involves. A little practice with one and you can turn out anything from a perfectly cooked roast down to the humble biscuit. And the lid of your dutch oven inverted over a bed of live coals becomes a griddle that is second to none.

In practically all camp kitchens I have seen or used the frying pan or skillet played a prominent role. In most cases it pinch-hits for nearly every known utensil at some time during an outing. For best results use skillets of the heavy iron type as it is much easier to maintain a uniform level of heat. The thinner type of skillet tends to burn its contents before it is cooked.

As other utensils it is well to include a few small sauce pans, and possibly a large kettle. I would not recommend that these be enamel-ware as they will not withstand the rough usage utensils are liable to encounter under camp conditions. The traditional lard pail will serve quite adequately as a coffee maker.

The sheathed hunting knife is always very handy and will answer the purpose for most cutting or peeling needs. In choosing this, steer clear of the semi-finished types with rough surface or hammer marks left on the blade to convince you of their being handmade. These indentations gather dirt and grease badly and are very hard to clean.

If any of you have ever wandered into the wilderness without a good axe, you will immediately agree that it would have been welcome company. If a good deal of chopping is anticipated, such as clearing fallen trees out of an old trail, the double-bitted axe with a four pound head has a better balance than the single-bitted type axe. On the other hand, the single-bit offers the advantage of utilization as a hammer to drive tent stakes and in most cases it may be the more practical of the two types. The smaller belt axe, while very handy and easy to pack, just won't measure up to the requirements of heavy chopping.

In the same parcel with the small file and stone that you take along for use on the axe and knives, it is well to include an assortment of small tools which might prove useful in making minor repairs to your wilderness outfit. A pair of pliers and a screw driver should be included at the least. Likewise a ball of twine, a spool or two of fine wire, a roll of friction tape, and a few small nails. If you travel by canoe you should also carry canvas patches, glue (waterproof), and copper tacks.

Another item, which should perhaps have rated a space nearer the top of your list, is a good waterproof match safe. Keep this safe always filled with matches of the strike-anywhere kitchen variety. These full-sized matches are easier to hold and to strike in fingers stiffened by cold.

Your everyday supply of camp matches should be packed in moisture-proof containers also. My own method of doing this is to pack the matches in several small cans with tight fitting lids. As an extra precaution I dip the lids in melted sealing wax and place them immediately on the cans. This seals out any possible moisture very effectively. Though the seasoned camper or woodsman may disdain it, a small tube of commercial fire starter, such as canned heat, is a great aid when you wish to start a fire in a hurry and have no dry wood.

One of the more tricky problems in the outing line, that has always been more or less of a tough one for me to solve, is a really practical camp light. The gasoline burning lantern provides excellent lighting facilities once you have reached your destination, but it is nearly impossible to pack one of these in a manner that will assure its safe arrival at the camp site. Too, it adds more gasoline to the list. However, if you can overcome these involved difficulties in some manner, it is an excellent light.

Among the battery types you will find a large and varied assortment, running from the ordinary two-cell flashlight to powerful lantern-like models. These battery models are compact, and seldom refuse to function except from expired batteries.

For the cook's light there is nothing better than a headlamp mounted on a cap or hat. This may be either battery or carbide energized. With this, your cooking light is always where you want it and you are never bothered by your own shadow.

An ordinary hand flashlight is always in demand. The two-celled size is my choice here as it is small enough to be carried in your pocket and provides adequate light for most occasions where used. Don't forget extra bulbs and batteries for your battery lights.

While in the wilderness camp most men will realize their inability to reach the services of a doctor quickly, and will accordingly exercise special care in avoiding sickness or accidents. At the best, however, minor cuts and irritations are almost inevitable. Consequently a good first aid kit is your only alternative. Whether you buy one already assembled or make up your own, ascertain that it contains the following: absorbent cotton, bandaging gauze, adhesive tape in various widths, iodine, a mild salve dressing or ointment, a small pair of scissors, a tube of Unguentine, and a good styptic preparation to stop bleeding. For the hunter of dangerous game, where scratches or bites are a possibility, some permanganate of potassium might be added.

If your outing is to take you into a locality where you may encounter poisonous snakes, by all means include a half dozen or so of the suction cups now being manufactured for the purpose of treating snake bites. In the same packet it is well to enclose a razor blade as it is quite capable of cutting the recommended cross mark over the fang wounds. The razor blade can be adequately sterilized in emergencies by holding it in the flame of a match.

For internal use a mild laxative and some bicarbonate of soda are all right. Avoid the use of harsh laxatives in isolated camps. An intelligently planned diet will exclude the need of this anyway in most cases, a plentiful supply of dried fruit being excellent in my opinion. Above all always label the contents of your first aid kit conspicuously as to what each container holds and its use.

My final bit of counsel—If you wish to enjoy your outings pick your equipment with the thought in mind of what use each item will be put to, and be sure it will fill its assigned capacity. And never forget that for comfort in the camp, the man to rely on is YOU.

A CASE *for the* MINUTE MEN

By Lieutenant Joe McCann • PART II

Synopsis: *In the summer of 1945, the Japs have landed a strong force on the southwestern coast of Mexico, defeated the Mexican Army decisively, and penetrated the interior jungles for reorganization. Meantime, a German land force of unknown strength has been based at Martinique. American and Allied divisions are deployed along the Rio Grande, prepared for a thrust by Japs, Germans, or both, into the U. S. proper.*

Sergeant, now Lieutenant, Joe McCann, formerly of the U. S. Army Parachute Troops and now on special duty because of a game leg, has arrived in Jeffersonville, seat of Davis county, on the Gulf and about a hundred miles airline from the international border, to advise and assist Sheriff Jeff Whitley in commanding the Davis County Minute Men in the event of an effort by the Japs to outflank the American forces by a sneak landing on Crumpton Beach.

Well, sheriff, I have one or two little projects in mind that we ought to get done as quick as possible. One of them is to have a telephone extension put in from Harry Horton's farmhouse to the top of that little hill overlooking Crumpton Beach, where you already have foxholes and a little trench for a command post. It's only a couple hundred yards or so from Horton's house, and the line should be laid along the ground from there to the hill, so the local telephone company should be able to fix it up for you in a few hours. And in the meantime, don't you have a roster of your Minute Men, showing the off-duty hours of each and such dope? Well, there should be two men stationed at that C.P. from now on, 24 hours a day. You can work out a schedule calling for a watch of two to four hours for each couple of guys, and arrange it so that they will stand a tour of guard just before or just after their regular working hours—that way it won't interfere with their sleep.

Their job? To watch the beach and all other directions for signs of Japs or Nasties, and call your office pronto. Until they see something exciting, they will call in every thirty minutes for a routine check. . . . You're exactly right, Sheriff. It means that somebody will have to be here all the time to answer the phone. You and your two deputies and I can take six-hour shifts each in the 6 P.M. to 6 A.M. period, and nobody will lose any sleep, much. Instructions at this end will be for the man on watch to call you and me in the event of anything unusual. . . . I'll be shacked up right across the square, there, at the Frost Hotel, and your house is only a couple of blocks away, so it won't take long to get rolling.

. . . O. K. Sheriff, you see about getting that telephone extension put in, and while you're gone I'll try out a little test of our external signal-communications set-up. Think I'll put in a call to the State Agitator-in-General, and then hold a watch on the long-distance lassies to see how long it takes them to get it through. . . . S'long.

* * * *

Operator, operator . . . hello, long distance? I want to have an understanding with you folks, so that any time a call is put in from this telephone to the telephone I just talked to, in other words the State Adjutant General's office, it will be put through immediately, even if you have to roust somebody else off the wire. . . . What's that? Against the rules? Lady, the game we're playing ain't got no rules. . . . All right, let me talk to the supervisor. . . . Hello, Miss Supervisor? This is Lieutenant Joe McCann, and I've got to get it fixed up so I can call the Adjutant General. . . . Serious? Well, I guess so. . . . Just the matter of a few thousand Japs down Mexico way, that might decide to start some fireworks around here. . . . It would be a real comfort to me to be able to tell the A. G. about it in a hurry. . . . O. K., Smartypants, I'll come over and talk to the superintendent right away. . . . Goo-bye.

* * *

Howdy, Sheriff. Get everything all set? First two men go on watch at noon today, eh? That's fine. The most important time for them to be on the alert is just before daybreak, of course, because that's when the Japs like to start operations of this nature. But that doesn't mean that they might not try a new wrinkle at any time, and come busting in just as we're sitting down for tea. Then again, small raiding parties might land at any hour of the night if they have just a dash of moonlight to help them along. Their purpose would be to scout Highway 41, up as far as Lawrenceville, and sneak back with their information without being seen, if possible. At any rate, what we want to do is make it hot for them, whether it's a dozen men or a regiment.

* * * *

Afternoon, men. We've come to relieve you. My name's McCann, and this is . . . but of course you know Brent. Anything happened? Guess not. Where's the telephone? . . . Say, that's a good idea, digging a little niche for it behind that rock. Protects it in case of bombardment, and the enemy won't find it so easy in case they overrun you here. Well, the station-wagon is waiting for youse guys. See you later.

Say, Brent, we sure have a swell view of the Gulf here, eh? Funny how many extra miles you can see with only a few yards of elevation.

Guess we'd better report ourselves on duty with this fancy French telephone contraption. . . . Hello. . . . Sheriff Whitley? . . . Brent and McCann now on watch,

all is well. . . . Do you know if any of the Minute Men have field glasses? . . . Not essential, I guess, but if we had a pair out here we could see anything on the water a little sooner, and identify it quicker. . . . Well, we'll call back every thirty minutes, Sheriff. Check.

Well, Brent, I guess we'll spend the next four hours doing what most of the Army does most of the time—polishing the guns and keeping an eye peeled in the direc-

tion of the enemy. We can take turns of fifteen minutes each on the alert. You'll be surprised how it tires the eyes to keep them focused at such great distances.

Oh-oh! Say, guy, what do you make of that speck out there, just a little to the left of Jackass Point? Looks like it might have a sail; probably a fisherman. But the Japs often use vessels that look like something else, to avert suspicion as long as possible. Getting closer now. . . . Guess it's not a sail after all. . . . By God, Brent! It's an amphibian! Gimme that phone!

Hello, hello! Sheriff Whitley? They're coming. Who? Why, the Japs, or maybe some pumpernickel Marines; can't tell for sure. Who was you expectin'?—Mrs. Roosevelt? . . . Only one amphibian barge sighted so far. It may be a squad or so on some scouting mission, or there may be a lot more behind 'em. I suggest you alert about five sections of five men each right now, and send two of them out here to me. Hold the others there at your office. If it's only one barge, we'll be able to handle 'em easy; if we sight any more, I'll call you and you can keep feeding your men out here. O. K., Sheriff. . . . Hey, Sheriff, one more thing: send two extra rifles out with the first carload. Brent and I haven't got anything to shoot except pistols, and we aren't going to let 'em get that close. Check.

Well, Brent, your section and four others will high-tail it out here in short order. When they arrive you can take a dozen men over on the other side of the road and deploy them so that they can cover the beach and the road too. And be damn sure they are well concealed. I'll do the same thing on this side. The order is to hold off firing until everyone is out of the barge, because those things are armored as heavy as a medium tank.

They might send a couple of scouts ashore to reconnoiter the road for a couple of hundred yards before they start unloading. I'll station three men back behind that crest in case they do try it. Their orders will be to keep under cover until the scouts have gone past them, and then capture 'em from behind with no gunfire if possible. Any firing would give the alarm to the guys in the barge, and they might beat it and leave their scouts to get home the best way they can. But if the scouts just fail to come back in a reasonable time, they might send a couple more to look for 'em. That way we might pick off the whole

gang. Get the general idea? . . . Well, we'd better watch for more of those amphibians.

* * * *

O. K. men. Unload, and the drivers can take the cars back and park 'em in the underbrush behind that knoll. Be sure they can't be seen from the beach or the road.

Now, if you'll look over this ridge here, you'll see the reason for all this. . . . Hey, you! Don't crawl up there in full view of the customers! If they spot a uniform or a rifle they wouldn't come ashore if the barge started sinking. You see, it's not a combat force, but a small patrol—not supposed to fight unless it has to.

Here's the plan. We split up, and half of you under Brent go across the road and deploy. The other half on this side. Three men—you three right here—go back down the road, keeping under cover as always, until you are behind that rise. Then snake yourselves in the brush, and capture any enemy that comes over your way by surprise. Try not to shoot.

How's the barge coming on, by the way? Guess I'll sneak a look-see. . . . Pretty close out there, by juminy! We haven't got very long to set the stage. Here's the big idea: when they are out of the barge, open fire, *but not before.* Everybody understand what's up? . . .

* * * *

Hello, hello! . . . Sheriff Whitley? . . . Say, this is going to be great sport. Only one barge, and we're set to handle 'em. No, don't need any more men. Can't be over twenty or so at most in the amphibian, and probably less. They'll be on the beach in a minute now. . . . I can see them close-up, now. Japs, all right. And there's a heavy machine gun mounted in the prow of the barge.

. . . Ah, just as I thought. They're sending a couple of scouts over the ridge to look down the road before they unload. . . . We have three men up there to look after them. . . . How's that? Oh, sure, I thought of that. They have orders not to fire, if it can be avoided. Gosh, Sheriff, this is delicious. Here they are, close enough for me to hit them with a rock, almost, and we know they're here but they don't know we're in the brush.

Well, there go the scouts up the slope. . . . Pretty good at it, too. They're keeping well separated, and having a good look-around every few steps. . . . Now the first one is over the ridge. . . . I'll call you back in a few minutes, Sheriff.

Hey! What the hell! I told those guys not to shoot. Some bloke using a hair-trigger, I guess. There goes another one. . . . Well, I guess he's spilled the beans. . . . The barge will probably pull out now, and we'll have nothing for our trouble except a couple of buck privates that no spik English.

Wait, now. Looks like there's something wrong in the old gator, down there. . . . Coupla guys fiddling with the motor. . . . Well, there's no time like the present, I guess. COMMENCE . . . *firing!* Attaboy, soldier, you got one. . . . And there goes the other guy that was tinkering with the motor. . . .

Hey, you! Crawl up here by me. . . . Now, get a good position and show me some cross-hair shooting; I want you to put a couple of slugs in the receiver of that machine gun. Fire at will. . . . Nope, that one was no good. Grazed the water jacket, but she'll still shoot plenty. . . . Ah, that's better. Now another one just like that. . . . Well, I guess the big noise is out of action now for good. . . . Nothing left to keep us from assaulting, except a few rifles. . . . And they're certainly paying more attention to keeping behind the gun'ls than they are to shooting straight. . . . Anyhow, I guess they can't see anybody to shoot at. . . . Jeez, I wish I had a 60-mm. mortar here! Could clean that boat out with one round.

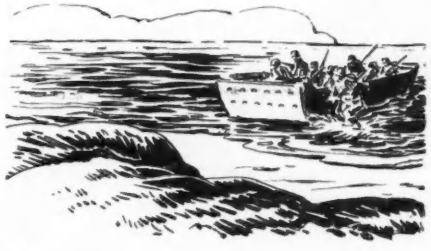
Hey, you! Wiggle up here. . . . Find yourself a good position close to this guy here who puts bull's-eyes in machine-gun bolts. Now, you two men keep up a slow and steady fire on the boat, whether anybody's exposing himself or not. If you keep denting the armor plate, they'll stay low. I'm going to gather the rest of the guys and rush 'em, so you be sure to hold off after we get within your field of fire. . . . Got it? OK, go to work.

Hey, Brent! Pass the word over there. When I start forward, everybody up for assault fire on the boat.

* * * *

Hello, hello! . . . Sheriff Whitley? Well, it's all over but the arguing, Sheriff. I want you to send the station wagon and another car out here right away, with drivers only. . . . Got to have some way to bring in eleven prisoners, haven't we? . . . And send a doctor out to bandage up a few of the guys who got plugged. . . . Yes, I'm afraid one of our boys is a goner—what's that fellow's name, Brent?—Morrison is the name, Sheriff; a swell guy, too, they tell me. Too bad. Couple of others have flesh wounds, but I gave 'em first aid, and they'll be O. K. . . . What happened? Why, we rushed 'em. They stayed in the bottom of the barge until we were almost on them, and when our covering fire ceased we were too close for them to do any good. These Minute Men of yours are pretty dern good soldiers, Sheriff. I changed the plan of action after the shooting had started, and they caught on right away and followed through. Takes good men to do that without a lot of confusion. First time under fire for most of 'em, too. . . . Oh, they're standing around here, slapping each other on the back and laughing like a bunch of kids. Got six of 'em guarding the prisoners. They're cutting enough insignia and such stuff off the Japs for everybody to have a souvenir.

Oh, yes, Sheriff; call the A. G. right away and give him a preliminary report of the action, and tell him to send someone after the prisoners. You'll let 'em sleep in your



jail tonight, won't you, mister? And tell him there's a slightly used amphibian barge down on the beach he can have if he'll send for it. . . . Sure, the men we leave on watch at the O. P. can look after it for the present. . . . Yep, I guess the Japs' general staff down in Mexico will wait a long time to get a report from *this* little scouting expedition. But that doesn't mean there won't be any more, Sheriff. We'll have to keep watches on the beach now stronger than ever. . . . Well, I'll see you later, Sheriff. . . . Sure thing. G'bye.—*To Be Concluded*

THE HOME WORKSHOP

HERE ARE THREE PROJECTS for the home workshop gun lover. Worked out in the course of routine Dope Bag experimentation with guns and loads, they are typical of the problems that arise, and of the solutions devised, often on the spur of the moment, by the resourceful gun enthusiast.

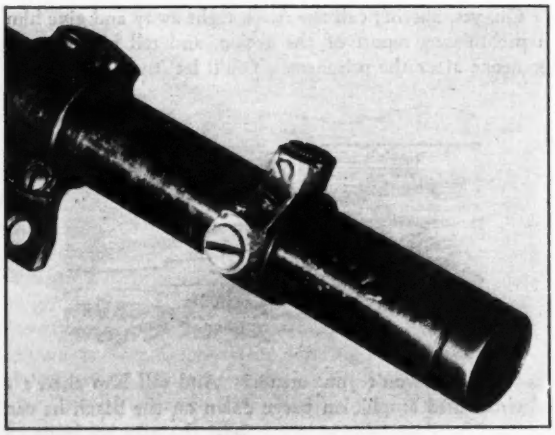
Locking Device for Weaver Scopes

To retain the refined movement of the Weaver "click" adjustments, and also to insure against accidental movement of windage and elevation, we tried mounting snug fitting sleeves of thin metal over the adjustment screws. The original shields were made from nickeled .357 S. & W. Magnum cases for an old type Weaver scope. The short sleeves were held in place, and joined together by hard soldering, using a thin strip of metal in place of the flat steel spring located between the two screws. The original screw holding this spring, with indented ends forming the clicks, was replaced with a slightly longer 4-40 screw, threaded in the same hole in reticule housing.

A new locking device was required, and first accomplished by drilling and tapping small 6-32 holes in the sleeves over the serrated knobs. A screwdriver was still required to loosen the locking screws sufficiently for the hardened, pointed ends to ride over the corrugated knobs, thus permitting a "feel" of each ¼ or ½ minute movement. The guards or sleeves came approximately flush with the top of the adjustment screws which were also slotted with a hacksaw blade to accept a screwdriver or coin.

Another idea for improvement over the original design is to use thicker walled sleeves or more metal in the connecting link between the two screws. Then use a short pointed plunger, backed by a small spring and threaded plug in place of the pointed locking screws. With this arrangement the clicks would be retained, although the adjustments could not be changed other than with a coin or screwdriver.

Certainly there are other methods for locking the Weaver adjustments, but the one just described is very simple to make. In addition, this job makes the "C" adjustments fully as dependable against accidental movement as the plain locking screw type, and far more convenient to use.



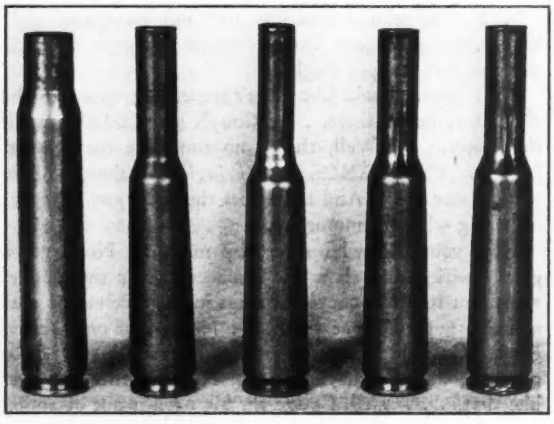
An improvised but entirely successful locking device for the Weaver scope. Adjustments are made safe against accidental movement without sacrifice of convenience

Mounting Scope Blocks

There may be some objections to these suggestions for scope block mounting, especially by gunsmiths and others fully equipped with proper tools for the job. Nevertheless, many blocks are installed using only the tools at hand, which usually consist of a vise, small level, inexpensive steel square, hand drill or possibly access to a drill press. Many times a perfectly satisfactory job is accomplished. This type of amateur might appreciate the suggestion.

First, the rifle or gun is mounted in the vise or on a drill holes with the smaller No. 31 drill. Even start the receiver or even a dove-tail slot in barrel. Next the block is located in the proper position, also leveled and held firmly in place with one hand. A roll of transparent Scotch Cellulose Tape is held ready with the other hand, to be wrapped around barrel and scope block, or even around forearm and block, as complete dismounting of the rifle is unnecessary. With just enough tape in place to hold block firmly to barrel, check again to be sure the block is level and aligned properly. Then add several more layers of tape for safety, and you are ready to go to work.

Puncture the tape over both screw holes in the block, start the holes using a .140-inch drill for a snug fit in the scope block holes, to insure proper centering. Then drill holes with the smaller No. 31 drill. Even start the tap, in both holes, with the block still in place, to be used as a guide. Then only remove the tape, clean metal chips from the holes and finish threading with the bottoming tap. This method is recommended only when surface plates, V-blocks, jigs and other special equipment are not available. Even then the tape might come in handy for holding the block as it seems to be more convenient than the ordinary C-clamp for holding the block in place. The strength of this tape was reassuring when it held a



Right: Cartridges necked down experimentally by the method described. Left to right: .30-'06; the same necked to .25 and .22 calibers; cases split at the neck by the use of excessive lubricant in the die

Lyman 17A front sight firmly in place on a .32-40 Single-Shot rifle, without dove-tail slot, for a limited accuracy test.

Sizing Die Lubricant

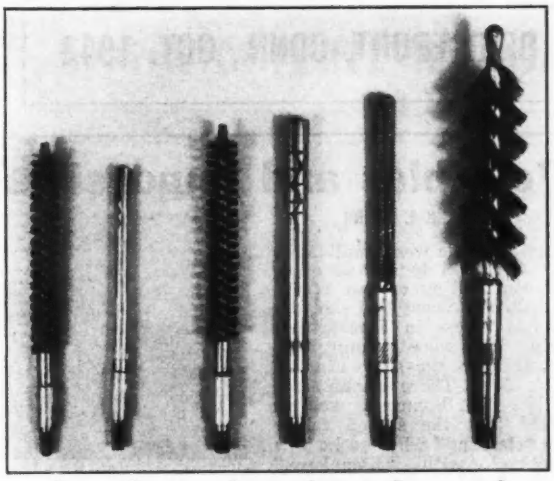
Through frequent use of full-length resizing dies, especially when reforming large cases to a smaller size for other calibers, different oils and even especially prepared greases have been tried for adequate, but not excessive, case lubrication. The outstanding type to reduce friction between die and brass case is the wax-in-solvent variety. Additional features are a quick drying wax film which does not pick up abrasives readily, and much lower percentage of damaged cases caused by excessive lubricant in the die. Too much lubricant ruins cases by leaving a fold or buckle at junction of shoulder and neck.

Die life is prolonged and cases come out in excellent condition, free of scratches, unless the die surface is already worn excessively, or marred from continued or improper use. Of the various prepared brands used, Anti-Rust Oil by Riel & Fuller, Fredonia, New York, seems to have the proper ingredients for a satisfactory job. Merely saturate a cleaning patch or cloth with the solution and wipe cases, thus depositing a wax film in place of the sand, dirt and powder residue which are quite damaging to the hardened, polished surface of the sizing die.—A. H. BARR.

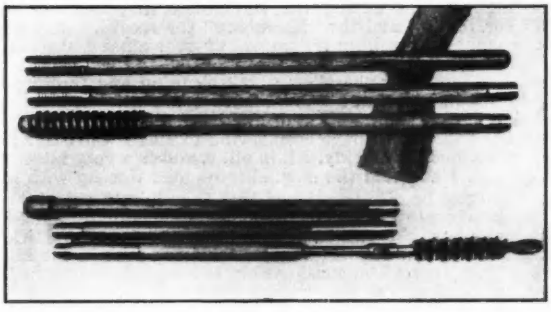
Tips on GUN CLEANING

MODERN AMMUNITION CONTAINING smokeless powder and non-corrosive primers has largely removed the irksomeness of cleaning firearms. However, any good gun will appreciate proper care and will reciprocate by shooting more accurately and effectively. Strange as it may seem, there has been no appreciable improvement in American-made rifle cleaning tips for at least fifty years. Standard equipment consists of jagged or slotted tips which probably were copied from the small end of a collar button and the eye of a darning needle. Is there any rifleman who has not had the experience of pushing a jagged tip through a patch in the middle of the barrel and having it stick both ways? After putting up with such crude articles for many years I finally decided that something better could be had or made. This decision resulted in the set of tips shown in the accompanying illustration. All of these tips are adapted to standard American rods.

It is in order now to describe the routine use of the above mentioned articles. No. 1 is a plain bristle brush and No. 2 is a special tip with an open saw-tooth slot. Nos. 1 and 2 are used primarily with rifles chambered for .22 caliber high velocity center-fire cartridges. Of course they may be used with rifles chambered for .22 caliber rim-fire cartridges but such rifles need very little attention when used with greased bullet ammunition. As soon as convenient after returning from a hunt or the range I swab the barrel with the No. 1 brush after it has been dipped in Protectobore. The next day or week when I am ready to use the rifle again I put a dry patch in the slot of tip No. 2 and wind the patch around the tip and pass it through the barrel two or three times. I then reverse the winding of the same patch and pass it through the barrel two or three times which leaves the barrel bone dry and bright as a mirror, ready for hunting or match shooting. I follow exactly the same procedure with .30



Above are shown the author's favorite tips for rifle cleaning. Below: Two excellent rods for the shotgun



caliber rifles using tips Nos. 3 and 4. Tip No. 5 is an alternate for tip No. 4 and is equally convenient and effective. Tip No. 6 was obtained as an effective type of wire brush for use in the event of a bad case of metal fouling.

My next quest was for a satisfactory field cleaner for shot guns. I realized from past experience that such a cleaner must be free from separate gadgets that might be lost or misplaced. The photo shows a very simple type of field cleaner with an integral bristle brush at one end and a closed slot for oiled rag at the other end.

For final cleaning at the end of the season I use the other rod illustrated. This is really a one-piece rod with hinged joints locked with sliding sleeves. It is strong and rigid and will stand hard use. The cylindrical wire brush shown is never removed from the rod. A patch soaked in Protectobore is wrapped around the wire brush and the gun bore is swabbed with it thoroughly. If there is any leading in the bore it is swabbed with the bare brush followed by a dry patch. Then the gun is coated inside and outside with Anti-Rust Oil after which it is ready for indefinite storage. Shot gun cleaning rods should be made so that the handle can be passed entirely through the barrel in order to assure proper lubrication of the choke end of the barrel.

The same routine is used with pistols and revolvers. These arms, as well as rifles, when put away for the winter should be coated inside and outside with Anti Rust Oil. Since adopting the procedure outlined herein I have had no occasion to use either water or ammonia solution.—C. C. HANCH.

BRIDGEPORT, CONN., OCT. 1942

Rifle Remgt

Possibles and Impossibles

by **FRANK J. KAHRS**

From a middle west small-borer we received a letter the other day commenting on our recent reference to a couple of shooters we ran across in Florida last spring who were cleaning and fouling with the same kind of ammunition. There was an error in that story because it was reported that the second fellow was "cleaning" whereas he was "fouling" with "Kleanbore." That was the real point of the story, that one shooter was using it to clean and the other one was using it to foul. Now, along comes this middle west shooter who says he notices I am touchy about the boys using "Kleanbore" to foul their rifles and then using the "dirty stuff" for record firing. He wants to know why I don't suggest that during the emergency they use the "dirty stuff" for fouling and the "Kleanbore" for record. Hell's bells, that is what I have been trying to say ever since I started this campaign about "dirty" ammunition, but when they use this fine, sweet-smelling "Kleanbore" for both cleaning and fouling, they get me so dizzy I don't know where I am at. But the m.w. shooter certainly knows his stuff and he catches on quickly, while most of the shooters I have been trying to make "Christians" out of catch on, but not quickly. All in all, it makes a very interesting subject and I am glad the m.w. shooter took this up with me.

In his letter he also mentioned that they have a very interesting marksmanship class going, and enclosed a clipping concerning a Michigan boy who graduated from the University of Michigan last spring and shortly afterwards tried to enlist in the Marine Corps. They found him considerably overweight and turned him down, but the boy was not swerved from his chosen course, so he got a job on a farm doing the hardest kind of manual labor, and after a couple of months he had knocked off forty-five pounds and again applied for enlistment in the Marine Corps. This time he was accepted and ordered to report at Quantico, Virginia, for training. That was about the middle of July.

Now before reporting for duty, this chap heard about the rifle club basic training class and reported there for instruction, and even asked the instructor to give him additional nights per week, stating that he wanted to be an expert rifleman when he got to camp. Well, to make a very long story much shorter, this chap fired the Army "E" Course, which consists of 40 shots at 100 yards, 20 shots slow fire (no time limit), 10 from prone, 5 from sitting and 5 from kneeling; 20 shots rapid fire (only 80 seconds allowed for each string of 10 shots), 10 from standing to prone and 10 from standing to sitting. This is all with the Military Rifle, of course. Well, after nineteen days of rifle training, our hero scored 187 out of a possible 200 points and made the expert grade, than which there is none whicher. Then to show that it was no accident, he fired the course a second time and again qualified as an expert, and this, of course, made it unanimous.

We like to hear stories like this because it indicates that if all of our young men who know they are to go into the Army would prepare themselves in advance, it would make the job of the Army instructors much easier and expedite the successful prosecution of the war effort greatly.

* * *

A friend of ours from the Badger State recently wrote in and among other things sent a set of targets consisting of 40 shots fired at one of the weekly practice sessions indoors at 50 feet in the prone and sitting positions. He used Remington "New & Improved Kleanbore" .22 long rifle ammunition and went on to state that there were two outstanding features of these cartridges in addition to their high accuracy standard which he felt were worthy of mention. *First*, uniformity of performance. He stated that in two cartons he did not have a single misfire or malfunction. *Second*, consistency of performance, because from March 1 to June 8 of this year he fired entirely from the prone position and changed his sight setting only one half-minute during all this time and the point of impact remained practically constant throughout the two months period.

Well, that is quite a boost for "New & Improved Kleanbore" ammunition, remembering also that the "hot shots" do not consider it match ammunition either.

A NATION OF MARKSMEN

America has a tradition for fine marksmanship that dates back to the days of the earliest colonists. The battles of Saratoga and King's Mountain in the Revolutionary War testify to this; the battle of New Orleans in the War of 1812 confirmed it. So has every battle America has engaged in from Bunker Hill to Buena Vista, from Belleau Wood to Bataan.

Expert marksmanship, as every shooter knows, comes only from practice and training. Effective marksmanship in the field goes back to the shooting ability developed on practice ranges, through hunting, through "plinking," through turkey shoots and beef shoots in times of peace. We're a nation of marksmen only because shooting as a sport is a free, unrestricted, democratic privilege that anyone can engage in who has a mind to fire away at a target. Check over the list of winners at any shooting event —rifle, pistol, trap, skeet—you'll find that people of all walks and stations in life take advantage of this freedom to increase their shooting skill. Today, that skill is of the greatest value in safeguarding *all* our democratic institutions.

THERE'S ONE IN EVERY CLUB *Lazy Bones*

NO WONDER HE TOOK UP RIFLE-SHOOTING - IT'S THE ONLY SPORT WHERE YOU CAN LIE ON A MAT AND LOOK BUSY!!
Zzz'z
HE'S STARTED TAKING VITAMIN PILLS - MUST BE BUILDING UP HIS ENERGY TO ADJUST HIS SLING!
A WEEK OR SO AGO HE GOT OFF A DOZEN SHOTS - SO NOW HE'S GONNA REST UP A WHILE!

"KLEANBORE" is Registered

Remington News

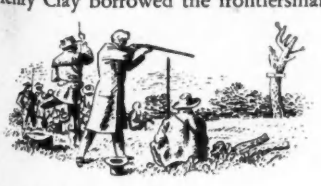
A PAPER FOR PEOPLE WHO SHOOT

"I'll never vote fer a man who cain't shoot!"

It was 1803. A 26-year-old lawyer named Henry Clay was running for the Kentucky legislature. Election Day arrived with its parades, florid speeches, turkey shoots—all the bustle and swagger that marked a gala occasion in a frontier settlement.

Young Clay was electioneering among a group of leather-faced backwoodsmen when he was challenged to prove his right to represent a frontier district. "We'll vote for you, young man," his principal heckler declared, "if you can *prove* you're a good shot."

Henry Clay borrowed the frontiersman's gun, and took aim at a mark eighty paces away. The target was pierced near the center! Clay carried the district, and won the election—the beginning of a distinguished career.



For many generations, the frontier sections of our country were prone to gauge a man by his ability to handle a gun. Their judgment was sound, for hunting is a sport that broadens and strengthens a man in cool self-reliance, resourcefulness, love of liberty and love of country. It helps develop these qualities today, as it did in the time of Henry Clay.

Remington Arms Company began making fine guns in 1816, thirteen years after Henry Clay won his first election. The application of lessons learned in those 126 years has made Remington guns and ammunition famous for accuracy and dependability. Today, for the fifth time in its history, Remington has turned from its peacetime production to help America win through to victory.

Here's one way you can help. Take good care of your guns and ammunition. Keep guns in good mechanical shape, and wipe with an oily rag to prevent rusting. Remove unused shells from the pockets of a wet hunting coat and from your car. Store them in a cool, dry closet or cabinet—not in a hot attic or damp cellar. Remember, ammunition, properly stored, stays good for years. Remington Arms Company, Inc., Bridgeport, Conn.

Registered Office, by Remington Arms Co., Inc.

GAME GUNS

(*Continued from page* 13)

to please the taste. By cutting it from the heel to the upper line of the grip, giving in some cases as much as 2½ inch drop at comb, I have proved to myself and various other shooters that the comb is of no possible value to these excitable chaps. The owners could not align the gun at clay birds of course but their game average was not changed. It has been indicated to us quite forcibly that a nervous man could kill just as much without a comb as with one.

If you wish to convince yourself of the importance of grips take a straight or semi-pistol grip stock you are accustomed to and lay something under the grip to form a rough full pistol grip, keeping it well back under the last three fingers. Then raise the gun to your shoulder in an attempt to make an imaginary snap shot at game. You will find that if you don't break your jaw you at least have bumped it pretty hard, proving that the stock came higher with your usual mounting movements.

If the incurably nervous chap wants to hit he must have a gun he can point accurately under excitement. Also it must fit so that it can be accurately aligned on game when guided by the hands and shoulder instead of the comb. The nervous shot does not cheek the stock, being too busy discharging the gun to catch the fast disappearing bird. On the contrary the old timer and the composed shooter can cheek the stock properly because of being better organized. My advice to these excitable chaps, therefore, is to consider the comb secondary to the grip and seek a fit that will kill game when their timing is speeded in game shooting.

Experience seems to teach us that the sub-conscious movement of the hands to align the gun on game is accurately done time after time. We can therefore compensate for any error in the proper alignment by the alignment our hands give us under stress, and do more hitting in spite of our nervousness which is usually considered a hopeless handicap. I do not wish to be misunderstood in regard to the vital necessity of proper comb drop and dimensions for any shooter who is certain he uses his comb when shooting birds. What I wish to make clear is the foolishness of depending on a certain comb drop for elevation and windage when no contact whatever is made with it. And worse, to disregard the grip which, by not using the comb, becomes our rear sight.

If a full grip is the answer for you the objections levied against it can be overcome by a single trigger. The gain that such a grip seems to give in certain cases would far offset the cost. It seems true that the English like a straight grip and it has often been remarked that they should know best as they have been at the game longer. However, the Englishman lucky enough to be a member of the shooting nobility can be classed with our old timers, doing much more shooting than our average hunter, and thereby overcoming the fault of firing the gun before contact at comb is made. For all of these men who cheek their stocks the grip is not of such great importance. I admit a preference for the straight grip when graceful lines need be our only consideration.

Of course grip is not the only point where changes can profitably be made but because of its complete disregard I consider it the most interesting and of first importance. We have been hammering away at what is the proper gauge for certain kinds of shooting; barrel length, boring, load of shot and powder, gun weight, shot size, double, over and under, automatic, pump and heavens knows what-not. In spite of all this consideration I don't believe we have given the limit of thought to our modern type of hunter and hunting. If I were nervous and couldn't get to cheeking the stock in the presence of game I would much rather have a .410 gauge that came close to proper alignment with my hands, than the best 12 gauge in the world that I had to cheek. If the excited shooter can only direct his charge by cheeking the stock but can't cheek it in excitement, his chances of hitting are very scarce. Even if he guesses exactly right as to lead and elevation, he is still unable to put the charge at that point because the gun does not shoot where his hands hold it.

Now comes the question, "How do I know if my trouble is grip?" That question cannot be answered definitely for all cases without direct contact, but there are several indications which should be heeded. First, if your shoulder gets black and blue shooting game and not at any other time, there's room to check here. Of course you won't notice when shooting that the heel or toe was all that touched your shoulder but it might be a little sore next day. If you are the kind of shooter who does pretty good work on clay birds but cannot connect on game, try to analyze the difference in your gun pointing or have some experienced shooter watch you on both clay birds and game—maybe it is grip. If you can hit game and not clay birds, allow no one to tell you a change in stock is needed. Better get some other gun for the clay birds and leave the game stock alone.

PICKING A USED HANDGUN

(*Continued from page* 24)

I fixed it and put it away. A few months later I again tested it, this time with primed shells. It had been left cocked, and the spring was so dead it didn't have enough hammer blow to fire a primer. Remember that, when you buy this cheap foreign stuff.

Buying a used handgun is not hard if you do business with a reliable dealer.

Every reader of THE AMERICAN RIFLEMAN has a source through which he may purchase used guns with confidence—the Arms Chest. All guns advertised there must be described according to the code printed at the head of the classified ad section.

One final note. If you're interested in guns, look up the nearest N. R. A. Club. Here you'll find a group of fellows who not only can give you good advice on just about all types of small arms, but will also be glad to show you have to get the best use of your gun.

When this war is over and business returns to normal, new guns will again appear on the market, and the total lack of demand for this poor grade of junk will mean that your investment has been a total loss. Not even a small trade-in allowance. Buy wisely.

The Old Coach

WHAT A RIFLEMAN SHOULD KNOW—1942

FOR SOME YEARS your Old Coach has been offering suggestions which he hoped would help you to become expert and master riflemen; successful civilian riflemen capable of making at least an occasional possible, at known distances on bull's-eye targets. This month I would like to mention a few things you should know to be a successful combat rifleman in war.

Many civilian riflemen are entering the services, and others, some of them of national reputation, are offering their services as instructors in rifle shooting. In most cases I am afraid these patriots have only a one sided knowledge of shooting—the civilian side. They know how to make possibles, perhaps they know the best way to teach others to make good scores; they know hold, aim, squeeze, wind allowance, and the use and care of their rifle so it will perform consistently. While the basic work for the military rifleman is going to depend on these same essentials, yet the "advanced" schooling must take into account many things which the civilian has not considered. In most cases the civilian knows little or nothing about shooting at field targets at estimated distances, in poor light and from awkward positions. He knows little of what a combat rifleman should know to work successfully as a member of a fighting team, or when he is on his own in enemy country as a scout or on a patrol. To illustrate let your Old Coach put a few questions.

Do you know how to correct for range by adjustment of the aiming point, how the sights should be set for firing at moving ground targets, how to determine lead on moving vehicles, and how to fire at rapidly moving targets? (A-203) (The references refer to the instruction manual and page—see below.) Do you know the lead necessary on various classes of air targets, the distribution and delivery of fire, the effect of rifle fire on airplanes, and the best position for firing at an air target? (A-204 to 211)

Do you know the arm and whistle signals for Commence and Cease Firing, Forward, Halt, Take Cover, Change Direction, Fire Faster, Fire Slower, Elevate, Depress, and Air or Tank Warning? (A-157) Do you know the commands and how to execute Load, Unload, and Fire with the two service rifles, Springfield and Garand? (A-23)

Do you know how to estimate the range, how indistinct or visible battlefield targets are designated, how to give the range, direction, and description of a target to your men; the trajectory, danger space, and beaten zone of the Infantry rifle? What do you know about fire discipline, the concentration and distribution of fire, fire control, and fire orders? (B-232 to 245)

Do you know how to read a military map, and how to find the location on a map by coordinates, how to use a compass and how to follow a course by compass bearing? Given a location on a map, can you go there and return by day and by night? Do you know how to take cover and concealment in all kinds of country, what to do as a sentinel, messenger, or lookout? Do you know how a rifleman conducts himself in enemy country, and how a reconnaissance is conducted? (B-95 to 114)

A combat rifleman, even if armed with the Infantry rifle only, should also know how to operate and fire the automatic pistol, Browning automatic rifle, and Browning machine gun. (C)

These are only a few of the things a rifleman of today should know, and certainly an instructor should be familiar with them and all their fine points. The manuals listed below give only the basic principles on these matters. The fine points and the practical application are taught to instructors (Army officers) at the Infantry School, at Officer Candidate Schools, and in Troop Schools. The responsibility of an instructor to every pupil under him to teach him to outsmart and outfight any enemy, both as an individual and as a member of a combat team, is very great. Are you willing, after it is over, to think back on the duties and responsibilities that you had, and if you failed to meet them, to carry on for the rest of your life with the knowledge that you failed? Would you in such a case like to face the mother and father of one of your pupils missing in action? These are some of the questions any civilian rifleman aspiring to be an instructor in the armed services should ask himself.

"A military organization emerges only when a cohesive group, united by common military ideals, confident in its skill in arms, has been developed. Individual skill with weapons alone will not give a group the cohesion necessary to fill the battle role. Riflemen fight in small isolated groups, often removed from the direct influence of officers, and derive their cohesion from unity inculcated by association and training. The time required to develop a cohesive military group exceeds the period needed to train the individual in the various military skills."

"Paul? Yes. I knew him. He was one of my pupils, poor fellow. He didn't have a chance. His rifle jammed and he did not know how to rectify it. There was a machine gun nearby but he did not know how to use it."

So you are going to be an instructor! If it's with the Army, do you sense the responsibility that falls on you? Isn't it time right now to qualify yourself in the more comprehensive military requirements that will make your basic instruction the more valuable? And if you are to remain in a civilian status, shouldn't you try the harder to teach young men about to be drafted the elements of straight shooting, so that the Army itself can carry on from there?

REFERENCES

A—New Infantry Drill Regulations. Military Service Pub. Co. edition. 75¢.
B—Complete Tactics, Infantry Rifle Battalion. Military Services Pub. Co. edition. 75¢.
C—T. R. 23-35. Automatic Pistol, Cal. .45. 15¢.
T. R. 23-20. Automatic Rifle, without bipod. 30¢.
T. R. 23-45. Cal. 30 M. G., H. B. M1919A4. 30¢.

The N. R. A. Book Department can furnish these manuals and training regulations at the above prices.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

"CAPTURED BY CO. 'M' "

Editor, American Rifleman:

It has been in my mind for some months now to drop you a line and let you know how much I and several other Association members of my acquaintance enjoy those true "Rifleman experience" stories that appear in our magazine from time to time. They are a welcome change from the technical articles and we hope you will continue to give us these stories now and then when you can obtain them.

One story in particular that I considered "tops" was "Single-Handed" by Lt. Col. Dan D. Howe in the March, 1942, issue.

The reason this story appealed so strongly to me is that for about 20 years I have been a collector of military weapons and relics of the first World War. About 15 years ago a high ranking Army officer gave me a German light Maxim machine gun that was perforated by a number of bullet holes and on the water jacket was painted the following legend, "CAPTURED BY CO. 'M', 60TH INF.—5TH DIV. OCT. 12, 1918 AT CUNEL." During the years I have had this gun I have often wondered whether this legend was true and just what might have been the story back of it. Col. Howe supplied the answer, as in reading his article I find that the date, company, division and place all check out to a "T".—*G. Edward Poe, Hagerstown, Md.*

ANSWERING A CRITIC

Editor, American Rifleman:

In answer to J. C.'s criticisms of my article on Mortars, let me say in the beginning that there have been a number of changes since I wrote that article and other changes will be made in the future. In fact, changes are being made so fast that any article covering Ordnance can tell only of the practice at the time and is practically obsolete the day after it is written. Also there are certain subjects considered secret by the censors which must be avoided.

That you may rest easy as to the reliability of my information, I will answer a few criticisms.

Number in "crew". Being a general article I purposely used the word crew (made popular as in tank crew) instead of injecting the military term of squad. As to number making up a squad (crew) Field Manual FM 17-27 "81-MM. Mortar Squad and Platoon" on page 2 states "The Mortar squad consists of 6 men" and again Field Manual FM 17-5 on page 137 says "The motor squad consists of a corporal and five men," the reference being to the 81-mm. mortar squad.

Leveling. As to whether the leg is telescoped or sleeved was so trite in an article of this nature that I deliberately chose the former term as being more easily understood by the reader.

Telescope. I deliberately used the term telescope sight because this was the descriptive term for an instrument (collimator) little known outside the Army. However, I did qualify the term by adding (collimator). I also made this addition to aid any reader enough interested to look it up. Thus I avoided a lengthy description which I considered out of place in an article of this type. This should have satisfied the most critical.

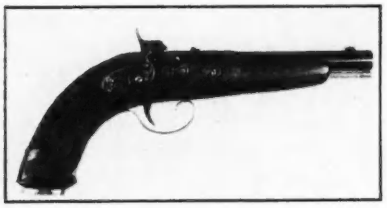
Fuze. At the time I wrote the article the weights of the shells were being changed around. However, a recent issue of *Ordnance Sergeant*, published by the Ordnance School, Aberdeen Proving Ground, Maryland, a very authentic publication, says about one shell, "It is equipped with a limited standard fuze employing a combination delay or super-quick action."

Mortar shell manufacture. Certainly mortar shells are cast (see my article in *Iron Age*, August 13, 1942) but at the time I wrote the article for AMERICAN RIFLEMAN, this information was still "Restricted" by the Censor. As to the other method I quote from an article by General Campbell, Chief of Ordnance, in the *Army Ordnance Magazine* which says "It is made of commercial seamless tubing."—*J. B. Nealey, Senior Journalist, Ordnance Department.*

"OLD BETSY"

Editor, American Rifleman:

Enclosed please find picture of what is known to me as "Old Betsy". At one time "she" was scrap steel and a block of Walnut laying in my shop. Then I got the crazy idea to make myself a muzzle loading pistol from "scratch", more to find out how much time



and labor the old timers spent making their guns (and believe me I found out) but also to see what this scrap would turn out to be.

All of the lock, hammer, trigger and various other pieces were filed to shape by hand; the barrel of course I turned and bored on my lathe along with the drum and nipple. The gun consists of almost everything from an auto axle down, being careful though to select the best of metal even if it was scrap.

The barrel is 8 inches long from breech plug, 13/16 inches in diameter, caliber .34 smooth bores. Overall length about 14 inches.

I have an old time rifling outfit and could have rifled the barrel but decided not, as I always have contended that a smooth bore with a high polish and proper bullet fit would shoot a *round ball* as accurately as one rifled, and the way "Old Betsy" shoots has me really believing it. At 50 feet shooting from a rest I have fired several groups and the extreme spread was 2½ inches, and one group 1¼ inches, which to my notion isn't too bad for what once was scrap.—*H. W. Quillen, Leechburg, Pa.*

A GREAT ADVANTAGE

Editor, American Rifleman:

I am enclosing excerpts from a letter received by our club from a former 1-A pupil who received training in rifle marksmanship from our club:

"The instruction I received from you through the Times Rifle Club has been invaluable so far. I do not know what I would have done without it. I only wish I could have stayed around for more, but it certainly has been a great advantage to me here and I want to thank you and the club for it . . ." Signed, John C. Donahue, Jr., U. S. Coast Guard Training Station, Groton, Conn.

We thought this information might be useful to the Association in its campaign to obtain instruction for 1-A men through the facilities of rifle clubs.—*William Tracy, Forty-Third Street Rifle Club, New York.*

TELESCOPTICS FORMULA

Editor, American Rifleman:

In regard to my article "Working Telescoptics" in the September issue of the AMERICAN RIFLEMAN, I note on the left hand column above figure No. 1 the following statement printed incompletely, "magnification of this telescope is —." Undoubtedly this was caught by the proofreader but the typesetter forgot to make the insert in the blank space. The sentence should read "Magnification of this telescope is

$$\frac{D1 \times D3}{D2 \quad D4}."$$

Inasmuch as the references throughout the article are so closely related to this original formula I thought it best to bring it to your attention.

After seeing the article in print, I can well realize that it is a bit of a proofreader's nightmare and fully appreciate the ease with which such an omission can be made.—*George R. Parizek, State University of Iowa.*

PLEASANT MEMORY

Editor, American Rifleman:

It may interest you to know of two incidents that have occurred since my article (Dog Town Celebration) appeared in the May issue. Among the many letters I received from readers praising the little story I answered two with the inclusion of the statement that my Prairie Dog shooting was about over because I was not able to secure primers for either my Lovells or Hornets. By return mail there arrived two packages, one containing three hundred and another four hundred primers without even a bill.

Of course, I immediately remitted a good price for the primers but the action of two members of the National Rifle Association who are entirely unknown to me is and ever will be a very fine and pleasant memory. These two men, without thought of recompense and moved only by the generous feeling that they would like to share their sport, were willing to give freely of their own small supply. You will, I am sure, join with me in the pride that I have that our Association has men of this sort among its members.—*Ralph C. Morton, Bismarck, N. D.*

Directors Elected By NRA Members

A sizeable quantity of .22 caliber training ammunition permitting continuation and wide expansion of the NRA Small Arms Firing School program was assured civilian rifle clubs last month at a meeting of the Executive Committee in Washington.

The ammunition was made available through the proper Government channels to groups conducting courses in rifle and pistol marksmanship approved by the National Rifle Association and the War Department as contributing to the war effort.

The Committee met following the 71st Annual Meeting of the Members, a gathering which in normal times would coincide with the National Matches.

At this meeting a slate of twenty men selected by the Nominating Committee was unanimously elected to the Board of Directors for the term which ends in 1945. Those re-elected were: Judge Hilliard Comstock, Santa Rosa, Calif.; Mr. Thurman Randle, Dallas, Tex.; Major Francis W. Parker, Jr., Chicago, Ill.; Colonel F. C. Endicott, the Director of Civilian Marksmanship, Washington, D. C.; Lt. Col. Payson D. Foster, Detroit, Mich.; Vice Admiral Russell R. Waesche, USCG, Washington, D. C.; Mr. George G. Cooper, Des Moines, Iowa; Lt. Col. H. N. Marsh, Wilmington, Del.; Major J. W. Hession, New Haven, Conn.; Mr. E. F. Bridgman, Springfield, Mass.; Mr. Del Lord, Hollywood, Calif.

Those newly elected to the Board were: Captain Calvin A. Lloyd, USMC, Washington, D. C.; Mr. C. V. Jones, Albert Lea, Minn.; Colonel J. J. Ring, Milwaukee, Wis.; Mr. P. D. Andrews, Schenectady, N. Y.; Mr. Walter W. Erickson, Cheyenne, Wyo.; Dr. Gardner A. Surface, Ellis, Kans.; Lt. Col. Joseph I. Greene, Editor of *Infantry Journal*, Washington, D. C.; Lt. Col. Leo Codd, Army Ordnance Association, Washington, D. C.; Rear Admiral William R. Purnell, USN, Washington, D. C.

Sharing attention in the reports of the officers to the members were talks by Major General Milton A. Reckord, Executive Vice-President of the Association while serving as Commanding General of the Third Service Command, and Federal Judge Hilliard Comstock, NRA President, of Santa Rosa, Calif., who reported on the success and growth of two movements begun by the Association in the last year.

General Reckord, who has firmly established the Minute Man plan of a trained militia reserve in Virginia, Maryland and Pennsylvania, told the members that the movement already is under way in other areas and he predicted even further expansion.

The General also reported on the value of the trained civilian marksmanship instructors who have been taken from the membership of the National Rifle Association to give basic training to the millions of raw recruits pouring into the armed services or to serve as a nucleus for State Guard and home defense forces.

Highly commended by Judge Comstock was the job being performed by the civilian clubs affiliated with the Association in forming schools in pre-induction marksmanship training for men of draft age. These schools, he reported, have exceeded expectations and their enthusiastic reception by civilians and endorsement by the military will result in a great increase during the next year.

Judge Comstock also paid tribute to the work of Secretary-Treasurer C. B. Lister who was not able to attend either meeting because of a temporary illness.

ASSOCIATION'S EXECUTIVE COMMITTEE APPROVES AMMUNITION PLAN

Official recognition of the National Rifle Association Small Arms Training Program has come from many government officials and agencies, including the War Department and War Production Board. As a direct result of such recognition, we are pleased to announce that a limited supply of .22 ammunition for training purposes has been made available for distribution under N. R. A. sponsorship.

By action of the Association's Executive Committee, the ammunition, immediately available, will be sold to clubs in case lots of ten thousand rounds only, through the three recognized distributors of official N. R. A. targets as designated by the Executive Committee.

Sales will be restricted to qualified clubs engaged in conducting approved Small Arms Training classes after their request to purchase ammunition is approved by the Association and the Director of Civilian Marksmanship. Orders will be sent to the Association on the Official Ammunition Purchase Form only. A supply of these forms has been mailed to all affiliated clubs.

This ammunition will be copper cased, of standard velocity, .22 long rifle only. For the present at least, qualified clubs will be limited to the purchase of one case of 10,000 rounds. Additional single cases may be ordered by the clubs, after furnishing satisfactory evidence that the initial or previous supply ordered has been properly expended in the War effort. The scope of each club's training activities, therefore, will determine the quantity of ammunition to be required.

Official Ammunition Purchase Forms, in duplicate, signed by the club President and Secretary and accompanied by money order or certified check payable to the Association, must be procured from, and then mailed to, the National Rifle Association, 1600 Rhode Island Ave., N. W., Washington, D. C. As previously stated Purchase Order Forms have been mailed to all N. R. A. clubs; additional forms for reordering will be sent with each acknowledgment of ammunition orders.

The Association will accept ammunition remittances and reimburse the three approved distributors for all ammunition shipped by them on N. R. A. purchase orders. The three distributors will in turn reimburse the Association for its expenses incident to handling ammunition remittances and orders, but the Association will earn no profit from the sale of this ammunition.

The N. R. A. maintains a file of the activities of all affiliated clubs, and, based on such information, will endorse its action of approval or disapproval to the Director of Civilian Marksmanship, War Department for final action. Orders meeting the official approval of the War Department Director will be processed by his office for prompt shipment from the nearest one of the three approved distribution warehouses.

It is anticipated that a supply of .22 rifles, built along military lines and ideal for training purposes, will be made available also for

(*Continued on next page*)

TIMED FIRE
With Bill Shadel

Hunting safety: We've neglected talking about it lately, but with another hunting season coming around it's time to promote safety instruction. In years past we have mentioned the demonstrations of various clubs held in high school auditoriums or on the range. These have been most effective. In Detroit, for instance, two days were given over to helping the prospective hunters sight in their rifles and learn the few safety rules. Some six hundred attended. In Minnesota, a club's demonstration in a high school proved so interesting, it was repeated by request all over the county. If you can undertake anything along this line, the NRA will be glad to furnish you outlines for lectures and ideas for demonstrations. A recent newspaper account, circulated widely, will cause misunderstanding with the public, and the only way to straighten things out is for our clubs and members to publicize the safety that has long been a practice with them.

In the article it is pointed out that shooting accidents "rank sixth in the nation among all causes of fatal injury." That "the toll from shooting accidents since the Armistice of November, 1918, has come close to 70,000 lives, or almost 20,000 more than the fatalities among the AEF in the first World War in action or from wounds." Our NRA members know the cause of most of the accidents—carelessness. But as long as there is a cure, it's up to us to make this cure available through education. We've probably been too smug about our own record in safety. It's time we did something about the other fellow, for as the article points out "we associate this mode of death with war" and it is deplorable that "the loss of many civilian lives through rank carelessness should be added to those destroyed by enemy fire."

Note to our riflemen in the Armed Forces, stationed in Gt. Britain. The secretary of the Society of Miniature Rifle Clubs, George Pethard, headquarters at "Mayleigh", Petersham Road, Richmond, Surrey, writes us: "If any of your members now in the U. S. Forces find themselves within a short journey of our headquarters, we would welcome a visit from them." You'll enjoy meeting the leaders of the small bore game in Gt. Britain and make some contacts you will appreciate when you return to the States.

A note to hunters: From Maine, Jerry Averill writes that ammunition hoarding is bad in his state, and he, being a warden, should know. Men that have never used more than ten shells in a year have bought up three or four boxes. "Right now there just isn't any more of the popular calibers available and the hunters coming into Maine this year better bring their ammunition along or they're going to be caught short." He says "To hell with what the papers are saying. This is the straight dope and I have looked the wholesalers' shelves over myself."

We recently had a return of a Life Member's Card. We're sorry to say it was with a notice of the death of this member, John Linden Paulding of Staatsburg, N. Y. Mr. Paulding died in his eighty-sixth year. His membership card indicated he was made a life member in 1871, the year of the NRA's birth. It reminded us that possibly there are still some charter members with us and if so, we would like to hear from them.

AMMUNITION

(*Continued from page 37*)

sale to recognized clubs through the same channels as already approved for the distribution of ammunition. Detailed information with respect to the rifles will be published in THE RIFLEMAN and in the monthly Club Bulletin, just as soon as the guns are available.

While the plan as above summarized promises no benefit to individual shooters nor to firms engaged in the sale of ammunition through peace-time commercial channels, the plan does insure the continued availability of .22 ammunition for pre-induction marksmanship training of civilians under organized guidance. And the action of the Association's Executive Committee in this instance reaffirms the prior action of the Board of Directors, who voted unanimously to emphasize marksmanship training for the duration as the most important contribution the Association could make to help win the War.

TRAINING FILMS

Visual aids in marksmanship classes have proven so effective that our military services have adopted two NRA training movies for basic small arms instruction. The endorsement of "The Fundamentals of Rifle Marksmanship" by the Marine Corps, and "Pistol Bullseyes" by the U. S. Army, as official training films, comes as a real tribute to these NRA inspired aids. While these films have been in circulation some time now, and have been used by many of our clubs and members they deserve much wider distribution. With the news that .22 caliber ammunition is to be made available immediately for training courses carried on by our clubs, and the announcement of the new NRA booklet, "Basic Smalls Arms Instruction," textbook for such courses, we urge the consideration of these films as a standard piece of equipment to help along these projects.

Educational circles everywhere are coming to appreciate visual instruction as a most effective means for putting across scores of subjects. The experience of our clubs and particularly various branches of the service now using the marksmanship films testifies to the value of these movies in their routine training. If you are conducting a class in rifle or pistol instruction we feel you should arrange for a rental booking of either of the two available films. If you are carrying on a continuous instruction course in defense plants or guard organizations, the films can be obtained as permanent instructional equipment through outright sale from the NRA. Rental prices for the period of a week to NRA members and clubs are $1.25 per reel ($5.00 for the four-reel rifle film, $3.75 for the three-reel pistol movie). The purchase price is $30 per reel, with 10% discount to members. Both films are 16mm., black and white, silent.

MORE ON FEDERAL LAWS

In the September RIFLEMAN on page 41, we printed a letter from an N. R. A. member, together with our reply, regarding the shipment of ammunition by individuals. It was stated that there is no law, federal or state, which restricts the shipment, transportation or receipt of ammunition by law abiding persons not engaged in the business of selling firearms and ammunition.

We are advised that some readers have misinterpreted this announcement by assuming that it applies to ammunition components, i.e., primers and gun powder as well as "loaded cartridges." Such an assumption is erroneous.

The Federal Explosives Act (See the RIFLEMAN for April, page 17) requires that dealers selling or individuals purchasing or possessing gunpowder or primers must obtain a federal license, under regulations issued by the Bureau of Mines. The license, usually obtainable from County Court Clerks, costs but 25¢. Dealers are required to see the purchaser's license (or a certified copy) before selling powder, primers or any kind of percussion caps. Loaded ammunition is specifically exempted from this law.

COL. SIEGMUND OF WESTERN RECALLED TO DUTY

Colonel Walter F. Siegmund, General Executive of the Western Cartridge Company, East Alton, Ill., and the Winchester Repeating Arms Company, New Haven, Connecticut, has been recalled to active duty in the Army Air Forces. He reported for duty September 5.

At the request of the Headquarters of the Army Air Forces, Colonel Siegmund was transferred from the Cavalry to the Air Corps in his present grade. His military record includes services on the Mexican border, and in France during the first World War. He began his military career as a Second Lieutenant in the 1st Missouri Infantry and has served since that time in the 3d Missouri Infantry, the 65th New York Infantry, the 3d New York Field Artillery on the Mexican Border in 1916 and, during the World War, in the 326th, 327th, 33d and 27th Field Artillery regiments. After the War, he commanded the 380th Field Artillery of the 102d Division. Later he transferred to the Cavalry, where he was attached to the 66th Cavalry Division.

In 1938, at his own request after the required number of years of service, he was placed in the Inactive Reserve and later in the War Department Reserve Pool, on account of his war production responsibilities in the Western and Winchester organizations.

Dr. S. Traner Buck

Dr.. S. Traner Buck, noted collector of Philadelphia, passed away August 20th, after an illness of several months. Dr. Buck had made a name for himself as a specialist, but retired from an active medical practice early enough to enjoy several years of hunting and fishing, and to become a champion golfer.

A little over six years ago Dr. Buck became interested in ancient arms, and in that time built up one of the most imposing gatherings of early firearms in the country. With an unusual catholicity of taste, Dr. Buck's arms cabinets included quantities of the finest European and American arms, among which were a good many that were unique among American collections.

Franck Laine

Franck Laine, 49, member of the Board of Directors of the National Rifle Association, died September 10. He was a life-time resident of Santa Clara, California.

Laine was chief consulting engineer for the Westinghouse Electric Company and a graduate of Santa Clara University. He was a veteran of World War I and since then had been extremely active in the target shooting game. Mr. Laine was the holder of several national and state shooting records.

He is survived by his wife, a son Willis Laine, and a daughter.

Wilbur B. Slack

Wilbur B. Slack was well known to the pistol-shooting fraternity. He came to the Metropolitan Police Force of Washington in 1940 and immediately found a place on the Pistol Team. Fresh from the Marine Corps, a Distinguished Rifleman and a member of the Rifle Team, he laid down his rifle and took up the pistol with no break in stride. Shooting with the Metropolitan Police Pistol Team and the District of Columbia Civilian Rifle Team at Camp Perry in 1940, he demonstrated his versatility. He was anchor man for both teams and consistently kept his scores in the top brackets. From Camp Perry to Tampa his scores were always those of a Master. Perhaps his Texas rearing and service in the Border Patrol accounted for his shooting ability.

Slack was injured in a fall when he tripped over a hidden wicket. He was rushed to Georgetown Hospital where an emergency operation was performed for a ruptured stomach. It was unavailing and death came three days later, September 13, 1942. All those fortunate in knowing him mourn his passing.

Lt. Col. Irven W. Kenney

Lieutenant Colonel Irven W. Kenney, Ordnance Department, National Guard of the United States, died at Ogden Arsenal, Ogden, Utah, August 24, 1942.

Born at Loda, Ill., July 7, 1884, he served in the military forces of the United States during the World War. In 1923, he was appointed 1st Lieutenant, Ordnance Department, State Staff, National Guard of Washington, on the Staff of the State Adjutant General. He continued on the State Staff, being promoted successively through the grades of Captain, Major, and Lieutenant Colonel until his entry into active Federal service under call of the President on September 21, 1940, when he held the position of Supply, Transportation, and Construction Officer on the State Staff. During that period he had a prominent part in the construction and maintenance of State armories and the permanent installations at Camp Murray, and has received many tributes for his unsparing efforts in this work. An outstanding rifle and pistol shot, and the owner of many marksmanship medals and awards, including those of Distinguished Marksman and Distinguished Pistol Shot, he served as member, coach or as captain of the rifle team representing the Washington National Guard at the National Matches at Camp Perry, Ohio, most of the years the matches were held, and to him goes much of the credit for the outstanding and consistent achievements of the Washington National Guard at these matches.

Upon entry into Federal service on September 21, 1940, Lieutenant Colonel Kenney was assigned to duty in the Washington State Headquarters of the Selective Service System, continuing until transferred to Ogden Arsenal in July of this year.—*From General Orders of The Adjutant General, Washington National Guard.*

Col. Elmer G. Lindroth

Colonel Elmer G. Lindroth, senior aide-de-camp to Lt. Gen. Hugh A. Drum, Commandant of the Eastern Defense Command, passed away at Walter Reed Hospital in Washington on September 10 in his 55th year. Colonel Lindroth, known to his intimate friends as "Lindy", was born in Illinois

and was a Lieutenant in the Illinois National Guard when the United States entered World War I. Prior to that time he was a prominent rifleman, a member of the Illinois National Match teams which competed at Camp Perry, a member of the National Rifle Association and active generally in shooting.

During the World War he was advanced to Major and for his services with the 33rd Division in the Meuse-Argonne offensive he was awarded the Order of the Silver Star and the Order of the Purple Heart.

He is survived by his wife, a son, Leonard, who is an aviation cadet, and a daughter.

Alexander Reese Williams

Alexander Reese Williams, 65, died August 12 from burns received from an exploded blow-torch. "Reese", as he was familiarly known, was a Life Member of the NRA. Coming to East Brady, Pa., 25 years ago he became one of the pioneers in the shooting game in that section.

He was a charter member and lifetime president of the Union Rifle Club of East Brady and charter member and officer of the Clarion County Sportsmen's Association, working diligently and tirelessly to further conservation and sportsmanship. "Reese" was active until the end and will be sadly missed and long remembered as a sportsman and friend.

George Springsteen

George Springsteen, NRA member and Secretary-President of the Empire-Keystone Rifle League, died at his home in Susquehanna, Pennsylvania, on August 1, 1942. At the time of his death Mr. Springsteen was also a member of the Binghamton, N. Y., Rifle Club. In spite of very poor health during the past few years he remained active in shooting and was a regular attendant at the League shoots. As Secretary-President of the League he was its guiding spirit and by his judicial handling of intra-club squabbles, his inspiration and guidance when weak clubs faltered, he kept the Empire-Keystone League going and in fact growing. His death is a great loss to the riflemen of northeastern Pennsylvania and South-Central New York.—*Howard H. Wilson, Upper Darby, Pa.*

Arthur L. Ulrich

Arthur L. Ulrich, 83, secretary of the Colt's Patent Firearms Company and noted gun authority, died at his home in Hartford, September 10. Mr. Ulrich's career with Colt's began in 1886, when he was employed as stenographic clerk. He was appointed secretary of the Company nearly forty years ago.

Born in East Hartford in 1858, Mr. Ulrich became a famed authority on early arms, and had in his care the unique collection of Colt weapons belonging to the Company. It was to Mr. Ulrich that Haven and Belden's "History of the Colt Revolver" was dedicated.

STOLEN GUNS

Colt Woodsman, 4½ inch heavy barrel, left hand Roper grips, Serial 119831, stolen from Buster Krewz Gun Shop, Austin, Tex., on August 24, 1942. Communicate with T. S. Pennington, 411 West 11th, Pueblo, Colorado.

Parker double barreled 12 gauge shotgun, Serial 126322. Stolen from home of F. L. Johnson, Chula Vista, Calif. Communicate with F. L. Johnson, 1st Lt., QMC, Camp White, Medford, Ore.

TOURNAMENT REVIEWS

THE GEORGE PAPIECH MATCH

The George Papiech Match at the Korbel Gun Club outside of Cicero, Ill., was a combination all-around championship which consisted of three position rifle at 100 yards and three stages of pistol at 25.

The top man was to receive a brassard from the Hawaiian National Guard sent by Private George Papiech, former club treasurer, now serving in Australia. The entire proceeds of the match have been sent to him, as well as a series of photographs, to assure him that he is still one of the boys.

No records were broken and the scores were moderate. But the tempo was fast and interesting. There was much to be learned from the occasion and the club plans to run many matches of this type at least once a month. Next month's program includes a muzzle-loading turkey shoot as they return to the arms of our ancestors because of ammunition shortages.

Royal Oak, Mich.: Fred P. Schimmel of Detroit stole the show at Royal Oak's first registered shoot. He won the aggregate, the 50 yard any sight event with a National-record-tying-score of 400-18x, the Dewar any and was Master class winner in the 50 yard iron and the Dewar Iron. Fifty six registered shooters turned out even though the weather man had dampened things the night before.

Allentown, Pa.: The first slip out of the 10-ring proved fatal to the 37 very anxious and excited competitors who competed for Grand Aggregate honors August 9 at the Third Annual Lehigh Valley Summer Small Bore Championship, for Floyd Oswald won the thing without dropping a single point. His official score was 1200-69x even though he won only one out of four events. The others were won, with possibles, by Dr. I. Tekulsky who was second in the aggregate, Russell Parry who was third, and Sam Tekulsky. All told, 69 competitors tried their luck at the match.

Virginia, Minn.: For the second successive year Arnvid Anderson of Warroad took the Grand Aggregate at the Minnesota Arrowhead Pistol tournament and lacks only a single win now of gaining permanent possession of the trophy. The chunky nationally-ranked ace rolled over the four-match program with a score of 1035 and added further insult by taking the .22 and center fire aggregates as well. With a total of 1102 the Virginia Clubs foursome of Ivar Branstrom, Tyl Johnson, John Rankila and E. Johnson carried off four-man team honors. G. H. Paris and John Haugland of Duluth captured two-man honors with a 554 score.

Seattle, Wash.: Two excellent days brought 61 competitors to the annual Northwest Pistol Tournament here and for two U. S. Customsmen, Mel Rogers and Percy Chapman, it proved a picnic. Rogers, in particular, was hot as he copped ten matches although pressed throughout by his teammate. H. E. Walmsley, who has earned his Master rating in his first year of competition, teamed with another Seattle Policeman, Sgt. Walter F. Day, to win the Buddy Team Trophy. The U. S. Customs outfit took both team events by edging the host-town cops.

Marietta, Ohio: Sixty-four hot shooters from Ohio, Pennsylvania, West Virginia and Kentucky fired away in the ninth annual Fort Harmar Open Small Bore Rifle Tournament August 15 and 16. L. E. Kemp of Isabelle, Pa., shot his way to the top in the Grand Aggregate ahead of Charles Whipple and Eugene Beecher after cleaning up in the Saturday aggregate and finishing third on Sunday. Class B winner was G. L. Cox of Marion.

COMING EVENTS

The registered tournaments are indicated as follows: B—State Championships or large District Matches; C—Local. *Unregistered* matches are not coded. Classification of competitors for prize awards indicated by asterisk—C*, etc.

OCTOBER

RIFLE

3–4 California (C*), Southern California, Glendale. W. L. Robbins, 800 E. Windsor Road.
4 Indiana (C*), Fall Rifle, Vincennes. **(Cancelled)**
4 Missouri (C*), Fall Small Bore, Kansas City. William R. Upp, 4743 Jarboe St.
11 New Mexico (C*), New Mexico Rifle, Jal A. C. Bothe, Box 194, Jal
11 Illinois (B*), Annual Harvest, Deerfield. B. C. Meyer, 919 Forest Ave., Deerfield.
11–12 Georgia (C*), South Atlantic, Savannah. **(Cancelled)**
18 California (C*), Southern California League, Glendale. J. E. Cornell, 662 Arden Ave.
18 Pennsylvania (C*), Fall Rifle, Broomall. R. G. Heron, Broomall, Delaware City, Penna.
25 Texas (C*), Fall Rifle, Houston. **(Cancelled)**
31–Nov. 1 Florida (B*), West Coast, Clearwater. L. W. Abrams, 705 Prospect Ave.

PISTOL

4 Ohio (C*), Fall Pistol, Chillicothe. J. R. Ewan, c/o Federal Reformatory, Chillicothe.
4 Pennsylvania (C*), Fall Pistol, Broomall. R. G. Heron, Broomall.
11 New Jersey (C*), Fall Pistol, Trenton. **(Cancelled)**

NOVEMBER

PISTOL

15 Arizona (C*), Arizona Ass'n, Phoenix. Howard Hathaway, Box 71, Tucson.
22 Florida (C*), East Coast, Miami Beach. A. T. Kelley, Jr., Box 43, Coral Gables.

DOPE BAG ☆ ☆ ☆ Conducted by F. C. NESS

THIS MONTH:

New High Velocities · .228 Ackley Magnum · Impacts and Gravity Drop · Steel Penetration · Zoerb .30-40 Rimless · .30-30 Winchester · .30 Remington · .303 Savage · .32 Winchester Special · .32 Remington · Handloads · Pedersen Components · 7-mm. Accuracy · Letters.

Correction and Warning. Through oversight we inserted in our August issue a classified ad offering instructions on how to recharge your own primers. Obviously this is directly in conflict with our frequently expressed editorial warnings on the dangers of such procedure, in general, with explosives.

* * *

New Velocities. So many experiments, all aimed at the objective of high striking velocity, are being conducted today by individuals and groups, it is certain to have an effect on the character of our varmint and sporting ammunition after the war is won. We may, then, well look forward to new factory cartridges or improvements in familiar standard loads.

We have heard of certain wonderful wildcat creations involving both wishful and better-supported claims, but it is only natural to be more thoroughly convinced by experiences of our own or at least by such ballistics as we have actually witnessed. It has been hard enough to believe some of our own groups and indicated trajectories.

A couple of months ago Holsinger and Carpenter gave me some of their range dope and relative impacts with the Wilson short-throated .220 Swift and the W-W "Arrow" wild-cat. Besides some fine groups at 300 and 400 yards, their impacts and sight elevations indicated respective gravity-drops of 3.83 and 4.26 inches at 200 yards with the 55-grain 8-S bullet, the former being less than our own best drop figure with the Swift by half an inch. Our 200-yard drop was 4.38 inches with the 50-grain 8-S bullet, and 11.02 inches over 300 yards. Holsinger's 300-yard drop was 1½ inches better than this, apparently, although we won't know for certain until the gravity drop with his outfit has been more definitely determined. We have had some relative impacts which were incredible. Impacts can be misleading.

Since then we have fired our final handloads with the .228 Ackley Magnum, which is the .30-'06 case necked down by P. O. Ackley to leave his characteristic long neck and sharp shoulder-angle; about a 50-grain case. My rifle was shown in the August issue equipped with Sorenson Springboard mount, which latter carries my special 2¾X B. & M. scope just 1.44 inches above the bore, axis-to-axis. The groove diameter is .2275 inch and it has a 10-inch twist for stabilizing all 70-grain and most 80-grain bullets. In it we have used bullets as light as 60 grains and as small as .224 inch; also as big as .228-inch diameter. In this outfit we have had the flattest shooting of our career, which means the least gravity drop over 200, 300 and 400 yards based on the angle of departure.

Our first drop results, obtained with inferior loads in the original and finally-replaced barrel of a very special and unsatisfactory steel alloy, were published in the May Dope Bag. Our new barrel has cut the gravity drop with the same bullet and load by six inches over 300 yards. I ascribe the higher striking velocity which this indicates to improved gyrostatic stability of the bullet rather than to any improvement in muzzle velocity, as I have every reason to believe the initial speed has not been changed at all. These relative drop figures, with 70-grain factory bullets, were quite ordinary, or a total of 20 odd inches (new barrel) over 300 yards, and 26 inches with the old barrel. See May Dope Bag for explanation of gravity drop.

Another 70-grain bullet of smaller diameter with a grain more powder also dropped about 23 inches over the same range. A third 70-grain, which was a new .2265-inch, surprisingly, dropped only 6.82 inches with a different and more potent powder load. An 80-grain bullet of the same diameter dropped less than 5 inches over 200 yards and just over 15 inches total gravity drop at 300 yards. This 80-grain load showed a 400-yard drop which equalled the average for the two 70-grain loads; the totals for 400 yards running from 32½ to about 39 inches. The best 70-grain load, however, showed the amazing 400-yard drop of only 20.79 inches. In comparison, the only 60-grain load tried at 400 yards showed a total drop of just under 22½ inches. This test has not been repeated for a check.

This 60-grain bullet was just .001 inch smaller than the groove diameter of my Ackley barrel, and it was driven by 40 grains of No. 3031. It surpassed anything we had previously fired by dropping, apparently, only 4 inches between the muzzle and 200 yards. Its 300-yard drop of 9½ inches also was 1½ inches less than anything we had previously fired.

Just for the fun of it, we also tried a .224-inch 60-grain Varminter bullet, although its diameter was .0035-inch smaller than that of the barrel grooves. This discrepancy enabled us to boost the charge to 42 grains of No. 3031, which is really some load. This gave a trajectory that was characteristic of that of the 48-grain .220 Swift load, or six inches drop over 200 yards and a total of 13½ inches at 300 yards.

The 70-grain bullet, with that best load of 39 grains of No. 3031, seemingly dropped exactly 3 inches at 200 yards! Even with the extremely low scope, the impacts at both 100 and 200 yards were, incredibly, only about a bullet-width above aim with the zero on the point of aim at 300 yards! As a matter of fact, the group-centers were less than a quarter-inch high at both intermediate distances with the center of impact right on aim at 300 yards. Of course, we are going to shoot it over and over again, as we cannot believe it yet, but, at least for once in our life, we have seen a rifle and load which kept all its bullets less than 1¾ inches above the bore-line all the way to the point of aim at 300 yards. That is literally flatshooting. The trajectory height, midrange, was only 1.705 inches, and but ¾-inch midway of 200 yards. Hence, we are "from Missouri".

For comparison purposes, the other impacts obtained over the same ranges on the same day with the same outfit, but with different loads, might be interesting. Ten grains less bullet weight with a grain more powder did not do so well, but it was next best. With the impact less than an inch low at 300 yards, the height of the 100- and 200-yard impacts were 1.36 and 1.30 inches, respectively. Another 60-grain bullet, .0025 inch smaller, but with two grains more powder, landed 2.32 and 2.39 above aim at the two shorter ranges with its impact on aim at 300 yards. This latter load exactly equals the trajectory of the factory loads in the .220 Swift. The others, with 80- and 70-grain bullets, were loaded below peak with another powder and cannot be directly compared. Only impact groups of 5-shots each were fired, but these showed consistent accuracy. With any and all loads at 300 yards the biggest group was 7 inches and the smallest less than 3½ inches. The smallest 200-yard group was 1.30 inches, made by that wonderful flatshooting marvel mentioned above. It happened, but it is not typical.

After two check tests with this 39-grain load of No. 3031 and two 70-grain bullets, the grand average of four times over the course resulted in the following drop figures for the .228 Ackley-Magnum: 1.31 inches at 100 yards, 6.18 inches at 200 yards and 15.59 inches at 300 yards. Of two tests at 400 yards the average gravity drop was 29.66 inches. The 80-grain bullet was fired again, this time with 40 grains of No. 4064, and the two-time average of its gravity drop amounted to 9.31 inches at 200 yards and 17.62 inches at 300 yards. The only 400-yard drop btained with this bullet was 34.66 inches. The final 5-shot impact groups with the 70-grain bullets were very satisfactory at 300 yards considering the low-power hunting scope and post sight which was used. With the two 70-grain bullets these 300-yard spreads were 4.75 and 4.82 inches. At this range we have fired only 10 shots with the 80-grain bullet, and these have averaged 7.97 inches per group, with 8 shots averaging 4.75 inches spread.

The point I would make is that we might have accepted those first results without question and believed we had the flattest shooting rifle and load in captivity, but we were interested in finding facts and had no wish to kid ourselves. Hence the several repeat tests and the final averages given which are not quite as flattering but far more truthful. Being seekers of the truth we went even further and tried a target scope on the outfit, and got practically the same average gravity drop over 300 yards, or 14.77 inches. With the same load and the target scope the least we got was 11.00 inches and the greatest 300-yard drop was 18.54 inches, which is very good for an ordinary 70-grain bullet. The best factory load in the .220 Swift with the 55-grain pointed drops 18.00 inches according to the factory tables which give even the 48-grain load a 300-yard drop of 14.00 inches. Because gravity drop is the total fall of the bullet in traveling the total distance, it indicates the total time of flight and therefore the average velocity over the total distance. That means our 70-grain bullet gets to 300 yards from the muzzle as quickly as lighter bullets do from the .220 Swift. In turn, that means it either has a higher muzzle velocity or a

lower net loss of velocity over the range, which should be quite obvious.

The layman has only four ways of judging the relative power of his piece. Field shooting serves to give a general idea of the relative merit, but it is too slow and haphazard for fair comparison tests. Relative impact comparisons are easiest and most popularly used for this purpose, although they are misleading unless the height of the scope and the angle of elevation are known definitely and adequate allowances are made for these discrepancies and their direct influence on the point of impact, at all ranges. Gravity drop is reliable because it is based on the angle of or line of departure regardless of sight height or sight angle, but it is difficult to surely locate that line of departure. The .22-60 or Miller-Magnum placed its impacts higher at 300 yards than at 100 when a full charge was used. The gravity drop seemed to be only 4 inches, but I had to base it on an estimated drop at the shortest range. When the charge was cut to 54 grains the drop was doubled. Steel penetration is the fourth comparison method open to those shooters who lack a portable two-distance chronograph, but steel is none too reliable even when the same plate is used at the same distance and at the same temperature and in the same tempo for each different load.

Speaking again of the same .22-60 Miller-Magnum, E. G. Little reported that it shows 20% more penetration in steel than the .220 Swift even when the Magnum load is cut 10 grains, or to 50 grains of No. 4064. The normal working load is 54 grains. A piece of armour plate which stopped the .30-'06 and .220 Swift was easily penetrated by the 40-grain Sisk bullet in the Miller-Magnum, but the same powder load behind the Sisk 63-grain bullet failed. This same plate was just barely penetrated by the .300 Magnum. This steel also stopped the 125-grain and 130-grain bullets from the .25 Miller, but the 87-grain and 90-grain bullets went through easily. In general, the .270 Magnum bests the .25 Magnum in steel punching and the .25 exceeds any of the .30 calibers in this particular kind of ability. Now refer to the .22 Magnum and the .220 Swift above and note the comparative performance of the 40-grain Sisk bullet, because Mr. Little also reports that it failed at 35 yards on a ⅜-inch plate which passed the factory 48-grain Swift bullet easily!

That shows the inconsistency of the steel test. It is also too dangerous to be recommended. At any range shorter than 100 yards bullets and fragments can come all the way back and viciously. I have known of .250 Savage bullets returning and passing the shooter after killing a chuck at 100 yards and hitting a stone beyond. Steel is much more likely to play this very dangerous trick. Mr. Little mentions one .30-'06 jacket which came back with dangerous force from a steel plate 40 yards away. I think it is all right to shoot steel plates at long range for an indication of remaining energy or striking velocity, where there is no danger from possible ricochets. Holsinger found his .220 Swift handload would cleanly perforate a ¼-inch steel plate at 375 yards while the W-W Arrow with the same bullet penetrated only most of its thickness in the same test. We tried this same plate with the same bullet in the 2-R Lovell and got .175-inch penetration at 200 yards and complete perforation at 100 yards. Diameters and craters on both sides being identical, we assumed the Lovell at 100 yards equalled the .220 Swift at 375 yards. With the 60-grain 8-S bullet Holsinger's rifle penetrated 3/16-inch of this same plate at a full 500 yards while the 55-grain barely marked it.

* * *

.30-30 Winchester, or .30 W.C.F., was the first popular smokeless sporting cartridge dating back to a decade before the turn of the century, and it is still popular for the same purpose. It was never adopted or used by the U. S. Army as a military caliber but it was at one time used by the National Guard of at least one of our Northeastern states in a military model lever-action rifle made expressly for that purpose. The handy little Winchester carbine and other Winchester, Marlin and Savage lever-action rifles, designed for rough or brushy hunting country and for saddle carrying, kept this game cartridge popular. These rifles in this caliber are still in use among the guards of some of our state penal institutions.

This rimmed bottleneck cartridge is a shorter and less-powerful version of the .30-40 Krag cartridge using bullets of the same diameter. Whereas the capacity of the .30-40 case is 40 grains of powder that of the .30-30 is 30 grains, for a general comparison. The heaviest bullet used in the .30-30 weighs 170 grains and is given 2200 f.-s.m.v. while in the .30-40 a 220-grain bullet is used at practically the same velocity. On the even basis of the 150-grain bullet, used in both these cartridges, the .30-30 gets only 2380 f.-s.m.v. against 2660 f.-s. There is a 6-inch difference in barrel length to the advantage of the .30-40 Krag figures, but even in this longer barrel the smaller .30-30 powder load would not make up very much of the velocity discrepancy.

The highest .30-30 muzzle velocity developed with the lightest standard bullet, the 110-grain, is 2720 f.-s. It loses 460 f.-s. over the first 100 yards and drops 14 inches in travelling 200 yards from the muzzle. The 150-grain bullet loses 320 f.-s. and drops 16 inches, respectively, while the standard 170-grain weight loses only 270 f.-s. but drops 18 inches. The gravity drop figures for the three bullets over 100 yards are, respectively: 2.8, 3.6 and 4 inches. I have extracted all the dope above from my latest Winchester catalog.

In trying examples of these handy .30-30 game rifles for accuracy with factory loads I have found even the lightest take-down models capable of keeping their bullets within a 4-inch circle at 100 yards. Since they are designed for short ranges, of not over 150 yards on deer and black bear and usually used at not over 60 yards, they obviously are adequately accurate for hitting that required 8-inch vital area on game. The cartridge is an accurate one and will give less than 2 inches of extreme spread at 100 yards when fired in a good bolt-action rifle, such as the M-54 Winchester which was once issued in this caliber. That is also true for the rimless version of this same cartridge, the .30 Remington, when the latter is fired in the Remington bolt-action rifle.

What is true about the .30-30 is also true about the similar .32 Winchester Special made for the same line or rifles. Both cartridges are in the same class as to accuracy and power, and the only practical difference is their non-interchangeability in a given chamber or bore, because the .32-caliber bullet is some .012 inch larger in diameter. When smokeless powder became popular and sporting loads of it failed to burn efficiently in the .32-40 straight-taper blackpowder case, the body was straightened a bit with a lift in front to leave a shoulder or slight bottleneck effect, and there we had the .32 Winchester Special. The .32 Remington is merely the rimless version of the same cartridge. These two rimless versions of the .30-30 and the .32 W. Spl. were designed for Remington slide-actions and autoloaders, for Stevens lever-actions and for the gas-operated trombone-actions of Standard make.

We might also place in this same category of power and purpose the .303 Savage rimmed bottleneck cartridge which features a 190-grain .30-caliber bullet at 1960 f.-s.m.v. It loses 220 f.-s. over the first 100 yards and drops two feet over 200 yards. Brought out long ago, in Krag days, for the M-95 and M-99 Savage lever-actions, its blunt-nose bullet and its full-throated barrels are the only sporting examples of the head radius and throat curve of the original .30-40 Krag and .30-'03 Springfield and their thick-headed 220-grain bullets which have a fuller and rounder ogive than modern bullets of the same weight. That is why the Krag throat handles this 190-grain bullet so perfectly and also why it is so popular among those reloaders who use Krag barrels having the original throat.

Outside of the heavy-bullet variants for the .30-30, consisting of 160-grain and 165-grain bullets at practically standard 170-grain velocities, there is a special Peters load for the .30-30 (which includes the .30 Remington) sufficiently interesting for description. It is a 125-grain bullet at 2560 f.-s.m.v. which loses exactly 400 f.-s. over the first 100 yards and drops half a yard over 200 yards. This bullet is a popular one among reloaders for other .30-caliber rifles of bolt-action type, and very good groups have been obtained with it in ordinary M-1917 barrels which have been properly short-throated to fit it. Because, with the exception of the spool-magazine M-99 Savage, practically all the .30-30 type of rifles discussed above have tubular magazines, none of the standard bullets are pointed. Sharply-pointed bullets would be dangerous in tubular magazines and cannot be used in these repeaters except when they are single-loaded directly into the chamber by hand.

There is a standard single-shot rifle in the .30-30 caliber which we have fired recently, and that is the M-219 Savage Utility Gun built on a top-break shotgun action. Equipped with its standard open sights, our 100-yard groups averaged 5.35 inches with the 110-grain factory load and 5.76 inches with the standard 170-grain S.P. load. When we fitted a 29-S Weaver scope sight our groups shrank to 1.78 and 2.62 inches, respectively. Our friend, J. H. Hanks, last heard of in the Philippines (before Bataan), had good results with his .30-30 handloads in the M-54 bolt-action. His best load was 35 grains of No. 3031 and the .30-'06, 150-grain bullet. Next was the 93-grain Luger and 30 grains of Hivel No. 3 or 37.5 grains of No. 3031. His best reduced load was 10 grains of No. 80 and the Squibb Miller, No. 311168, seated shallow or deep. At 100 yards bench rest all these loads repeatedly averaged, in order: 1.3, 1.7 and 1.5 inches extreme spread.

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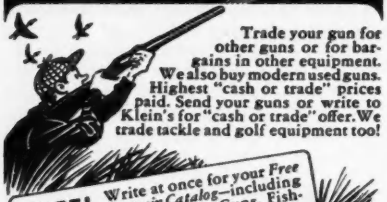

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.30-40 Rimless. J. E. Zoerb, who, to my best knowledge, was the very first gunsmith to "Kilbourn" the .22-Hornet case, did a shortening job on the .30-'06 case back in 1939. This ".30-40 Rimless" is so called because he reduced the .30-'06 powder capacity to that of the .30-40 Krag. He also reshaped the 170-grain .30-30 boat-tail bullet to weigh 165 grains and loaded it in his shortened case with 36 grains of HiVel No. 2 or with 39 grains of No. 1185 powder. Characteristics were: apparent low pressures at normal .30-'06 velocities. His .30 caliber wild-cat proved to be the most accurate sporter in four Black Hills hunting camps that season. His rifle had a 22-inch Springfield barrel on a Mauser action and it weighed 8 pounds. See cut in September Dope Bag.

.276 Components. I have been asked about the components value of the obsolete .276 Pedersen ammunition, by those reloaders who wish to use the bullets and powder in their 7-mm rifles and by those experimenters who contemplate using the cases and primers in .22-caliber and .25-caliber wildcat rifles through the necking process. This .276 Pedersen ammunition is sold to N.R.A. clubs only in case lots of 1680 rounds, and the net price is $18.65 per case. Even after the purchaser has paid express or freight charges, it will have cost him less than 1½ cents per round, which means less than $1.50 per hundred. He will then have, delivered, a supply of primers worth 50 cents per hundred and an equal number of bullets worth up to $3.00 per 100. As an additional bonus he will also have as many rimless bottle-neck cases and more than 7½ pounds of smokeless powder of No. 4198 type.

James E. Fields tried the bullets and powder in his 7-mm Mauser, and had the best results with 35.5 grains of the I.M.R. No. 25 behind the 125-grain streamlined Pedersen bullet. His very best load, at the time, was 41 grains HiVel No. 2 in Western cases (7-mm) and with WRA No. 115 primers. His first results were not very good in the 10-inch twist, and I suggested heavier loads with slower-burning propellants, feeling sure that this bullet was capable of better groups than 4, 4½ and 5 inches at 100 yards. Trying it in our own M-70 Winchester with 330 Weaver scope, which shoots into 2¼ inches, we had a spread of 2.22 inches with Mr. Fields' light load and 2.42 inches with his best load. These were perfectly satisfactory, of course, but, strange to say, our heavier loads did not do as well. With this bullet and Ipco wads, 40 grains of No. 25 gave 3.43 inches, 44 grains of No. 3031 spread 3.75 inches and 50 grains of No. 4350 made a 5-inch group. We also tried a load of 48 grains No. 4320 without wads and got 4.08 inches, center to center. So much for the 7-mm and its 10-inch twist. I believe these bullets will perform better at longer ranges, especially in the .276 Dubiel and other 7-mm Magnums and regardless of their rifling, but anyone having a barrel made for the .276 Pedersen cartridge should, if possible, get the 8-inch pitch of rifling.

The nearest commercial equivalent of the .276 Pedersen cartridge is the .256 Newton, or 6.5-mm Mannlicher-Schoenauer, loaded with 129-grain bullets. The latest factory list on these, for this year, was $10.52 per 100, or $2.45 per for the bullets alone. The 1942 list on even the little .22 Hornet cartridge was $33.88 per 1000. Therefore those purchasers who do not break down their .276 Pedersen ammunition, but shoot it as received at a net cost of $15.00 per 1000 rounds, reap the greater profit. Today the commercial ammunition is practically unobtainable, and that will soon be true of the .276 Pedersen stuff also, as the supply is nearly exhausted.

TRADE DOPE

K. F. HANSEN announces he is closing his Sporting Goods business at White Plains, New York, as of October 1st, because he is joining the Ordnance Department for the duration.

LETTERS

Theoretical. I am enclosing a stamped air mail envelope and would you please give me correct answer to the following problem, from one of our correspondents who has a wager on it.

A says that a squirrel can be killed at a longer distance horizontally than vertically with the same load and gun.

B says that the shotgun killing power is the same on the horizontal distance as the vertical distance or equal.

The same load and shotgun only to be considered.—L. F. M.

Answer: From the practical standpoint there is no difference in killing effect at 50 yards in the vertical plane as compared with the normal horizontal plane or the usual 45° diagonal which is involved when the squirrel is in the top of a high tree. About the lightest or smallest shot which would be used on squirrel is No. 6 and the most common load is 1⅛ ounces in a 12-gauge at 1180 f.-s. muzzle velocity with 639 f.-s. remaining velocity at 50 yards. The average velocity over 50 yards is 910 f.-s. Each pellet arrives at 50 yards with a velocity of 639 f.-s. and a striking force of 1.82 ft.-lbs. This slowing down or loss of velocity is due to air resistance making the time of flight .1720 seconds which is about 3/16 second.

From the mathematical standpoint with the acceleration of gravity totaling 32 f.-s. at the end of one second, the acceleration is not over 6 feet per second at 50 yards in the time of .1720 second. Thus the vertical line of fire will bring its pellets to the mark at practically the same velocity or with only 6 f.-s. loss, or lower velocity. Even were it compared with a similar load shot from a high point straight downward, the total difference would only be 12 f.-s., as here again the change in striking velocity would be 6 f.-s., higher than normal, now.

Now my own interpretation is that this is not significant at all in the matter of killing power or for the purpose of establishing any practical difference, because each of those loads fired at any angle and in any direction will vary more than that from shot-to-shot even in good ammunition. As a matter of fact, the normal variation is 32 f.-s. plus or minus, or a total of 64 f.-s. from shot-to-shot in the same direction, on the same target, with the same load, etc. You will note that this normal extreme variation from plus-to-minus, from shot-to-shot is fully ten times greater than the influence of gravity. Even so, any shooter would notice no difference on account of that extreme variation of only 60 f.-s. Since your correspondent has disregarded and never noticed this inescapable shot-to-shot difference, it is inconsistent and unreasonable of him to be concerned about a gravity-influence difference only one-tenth as great.

* * *

Gas Check Loads. I am considering buying a B. & M. reloading outfit complete for .30-'06. I am going to buy a mold for a gas-check bullet, No. 311169. Would like for this to travel about 2000 f.-s. at muzzle.

I want to use government powder and primers, but cannot find any dope on setting the powder measure for this powder to give me the desired results. Would appreciate it very much if you could give me the dope on loading using this powder for a velocity

of 2000 f.-s. behind the 169-grain gas check. Are government primers nonmercuric?—R. J. H.

Answer: The 169-grain Squibb gas-check bullet is a good one for gas-check velocities in the Krag and .30-'06. For this purpose some of the new propellants like I.M.R. No. 4227, 4198 or Hercules 2400 and HiVel No. 3 would be better than the other military powders. You could also use Pyro D.G. as a substitute in charges of 29 to 33 grains weight in the Krag and from 30 grains to 36 grains in the .30-'06. You should always set your powder measure by scale or balance sensitive to 1/10 grains. It might also be possible to use I.M.R. powder No. 1185 in charges between 30 and 35 grains weight in the Krag and between 35 and 40 grains in the .30-'06. However, it would be best to use the 190-grain gas-check bullet with this powder which will probably not burn well at the low pressures developed by these loads.

These gas-check bullets are good for game shooting and target practice up to 200 yards, but they are not safe to use in settled communities on account of ricocheting. It would be better to use the 93-grain Luger soft-point bullet at velocities between 2800 and 3000 f.-s. with charges between 45 and 48 grains of 1185 and the same with Pyro D.G. in charges between 47 and 50 grains.

The government primers are nonmercuric, but they are corrosive and not noncorrosive. They are not obtainable at present. You could use the WRA No. 115 or the R.A. No. 8½ KB.

* * *

Those 2-R Dimensions. The other evening I started to turn up a chambering reamer for the R-2 Lovell case from the drawing given in the RIFLEMAN May, 1938. The length of the shoulder is given as .125, the angle as 15°, and the diameter of the shoulder and neck as .296 and .246 inch, respectively. In checking these figures I find that using the .296, .246 and .125 figures the angle of the neck would be 11° 19′ and if we adhere to the 15° angle, the length of the neck would only be .0933 long. This would, of course, change either the 1.180 length or the .280 length of the neck if the 15° angle were kept. Can you tell me which is correct as I haven't any cases available for checking?—H. E. R.

Answer: I have your letter and will say that J. Bushnell Smith's drawing of the 2-R Lovell is in error as to figures in certain dimensions. Checking the latest 2-R Lovell case for you I find the extent of the beveled shoulder is .125 and the neck .280 inch. The body is 1.187 inches and the rim about .0468 inch, making a total case length of 1.633 inch which is about right for any of them. The one I measured is a fired Griffin & Howe 2-R Lovell case. I hope this gives you the necessary information, and I believe it does. Evidently Mr. Smith did not have any scientific method of measuring the shoulder angle, and this was noticed immediately after the picture was published. We felt that a correction was not vitally important because the error was obvious and anyone misled by it would probably discover the mistake before he would discover any correction in a subsequent issue.

* * *

Gallery Zero for the M-1917. Am a member of the Minn. State Defense Force. In about another week we will have about 80 members. We have about 60 Enfields, Model of 1917. We are going to teach these 80 members to shoot and handle this rifle the way it deserves to be handled. Because it isn't convenient for us to get out in the country—a large group like this and no good out-door range nearby—we are for the time being going to use *reduced* .30 cal. loads on the indoor Armory range—60 ft. We have made arrangements with a couple of N. R. A. members in Fargo, N. D., to make up these loads for us. What I'm coming to, is that I cannot seem to find the information I think we need about setting the sights on this rifle—the value or meaning of the *marks on the leaf.* I have Pamphlet #1917—62 pages, and another one Soldiers Handbook of Model of 1917 (Doc. #698) but neither one seems to give the information we think we need. It might be too, that I don't quite understand the information that is given.

As I understand it, when the *leaf* is *laid* and the battle peep is used, the point of impact would be about 400 yds. away—CPL. M. O. R.

Answer: I have your letter and note your sighting problem with the various Model 1917 rifles. All of these should perform the same with the same sight adjustments, as they are made to the same specifications and the only difference is that they were made in different factories. With any of them properly zeroed for the chosen outdoor range you should be sure of hitting the bulls-eye with Service ammunition. That is, you can be as sure of it as you can be sure of anything in this life where only death and taxes are a dead certainty.

Now for your reduced loads the battle sights may well serve at 100 yards, because usually the regular 400-yard elevation is required for such loads. For adjusting the elevation you will have to raise the sight leaf and then use the slide. The elevation graduations on the sight leaf are calibrations in yards, in 100-yard units. The even numbers on the left side begin with 200 yards and the figure 2. The odd numbers on the right side of the leaf begin with the figure 3 which means 300 yards.

For your short range of 60 feet you will have to put the sight as low as possible and that might be low enough, because at that short range the bullet has to come up from below to meet the sight line. Even so, you may need a higher front sight. This you will have to determine by shooting. The proper zero of this rifle and its sight was obtained by using front sights of different heights. These were issued in steps of .015 inch in height, the lowest front sight being .985 inch and the highest available 1.135 inches high. Today I think it would be difficult to get any of these sights, except possibly from a sight manufacturer.

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SELL—D. C. M. SPORTER #1366795, FIRED 200 times, perfect in, very good out, $55.00, or trade for perfect M. T. Woodsman, or Shooting Master 38 Spl. only. J. J. Wylie, Emporium, Pa. 10-42

CUSTOM SHOTGUNS—12 GAUGE MARLIN Skeetking overunder $65.00, Smith Skeet Cost $120—$80.00, perfect. Cine, still cameras, equipment, new, used, chemicals, accessories, Bargains. List, stamp. Phil Sharpe, Red Lion, Pa. 10-42

KILBOURNIZED 19 SAVAGE HORNET, $22.50. Dubiel-Springfield .30-06 Bullgun, $55.00. B. S. A. —Dubiel Hornet, $75.00. Match Grade Springfield, $50.00. C. L. Eimer, 1106 Sergeant Ave., Joplin, Missouri. 10-42

D. W. M. LUGER, EXCELLENT, .30 CALIBER, 4" barrel, $32.00. C. Armstrong, 623 Baltimore Ave., E. Lansdowne, Penna. 10-42

FACTORY SECONDS RECOIL PADS $1.00, postpaid. Complete with screws for attaching. You save $2.25. Send outline of gun butt. Prompt delivery and satisfaction guaranteed. Incor Mfg. Co., Terminal Bldg., Youngstown, Ohio. tf

COLT DRAGOONS, 2ND MODEL, SQUARE guards, in beautiful mahogany case, guns and complete accessories half sunken in plush, whole outfit practically new, a museum set, $250.00. Satisfaction guaranteed. Colt Frontier "Flat Top Target," 44 Russian with extra cylinder for 44 Special 7½" barrel, original dull nickel, fine condition, $65.00. M. C. Clark, 169 No. La Peer Dr., Beverly Hills, Calif. 10-42

.218 BEE, EXCELLENT, SWISS ACTION, D.S.T., 5X Weaver, 300 factories, $35.00. .43 Egyptian Sporter, new, $30.00. .41 Swiss Sporter, new, $22.50. 38-55 Stevens 44, excellent #3, newly blued, $10.00. Beautiful 32-40 Scheutzen, bolt action, single shot, D.S.T., engraved, perfect, right and left cheek pieces, fancy guard, $35.00. New .41 Swiss as issued, $10.00. Heavy .22 Express blank, $15.00. Beautiful half stocked, 15 lb. percussion, target rifle, ¾ inch, 50 yds., excellent, D.S.T., silver mountings, .41 cal., windage 17-A, Vernier rear, $35.00. Mauser 3 shot 12 gage, good, $5.00. Barnes 7mm bullets, 300, 140 gr.; 64, 160 gr.; 66, 180 gr., $21.50. 300 Bee cases, $5.00. 30-30 Ideal #3 tool, $3.00. Ideal molds, #36072-110, #452374, $3.00 each. WANT —Heavy Slug Gun, fine S. S. Scheutzen, .38 Officers Model. Leonard Aurand, Lewistown, Penna. 10-42

$1.50 EACH. SPRINGFIELD RIFLE BARrels. 30-06 caliber. Second hand. Limited supply. We buy sextants, binoculars, field glasses, modern firearms, any kind, any condition. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa. 10-42

.22 CALIBER SPRINGFIELD BARREL, EXCELlent, $7.50. Hi-Wall Winchester C. F. action, hornet extractor, $7.50. .22 W.C.F. mould, $2.00. WANT —Large Rifle Primers. Enfield receiver, action or complete rifle. Laurence George, Plainfield, Ill. 10-42

WINCHESTER .257 MODEL 70, FIRED 60 times, excellent condition, Bishop stock, Weaver 440C scope, Redfield mounts, 500 bullets and primers, 80 loaded cases, 3 pounds powder, leather shell case, $140.00 complete. William Blackmer, 163 13th Street, Idaho Falls, Idaho. 10-42

FIREARMS FOR COLLECTORS. PRINTED, illustrated catalog #7, 1,100 items, $1.00. Large descriptive list 20¢. Far West Hobby Shop, 406 Clement, San Francisco, Calif. 3-43

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The final closing date for the November "Arms Chest" is October 5th.

WOODSMAN, MATCH TARGET, HOLSTER, perfect, $60.00. .30 Luger, very good, $45.00. Model 70 Winchester, Hornet, new, $80.00, 500 ctgs. extra. Model 52 Winchester, excellent, $50.00. Winchester 32 Auto Rifle, very good, $35.00. Sauer 12 Gauge, 30", good, $55.00. 8mm Mauser, Army Rifle, reblued, very good out, fair in, $30.00, ctgs. C.O.D. Frank Lominack, Jr., Newberry, S. C. 10-42

FOR SALE: 30 LUGER 11½" BARREL PISTOL (DWM), ramp front sight, 300 meter rear sliding sight, with carrying case, very good in, excellent out, an outstanding pistol for $135.00. Warshal's, First-Madison-BB, Seattle, Wash. 10-42

.45 COLT S.A.A., 4¾", GOOD, $35.00. .45 COLT S.A.A., 7½", fair, $30.00. .45 Colt N.S., 5½", excellent, silver plated, $45.00. 4X Wollensak Scope and mount, $10.00. Thos. B. Henderson, Box 158, Marathon, Texas. 10-42

SELL—AMERICAN EAGLE, SQUEEZER-grip, pre-war Luger, excellent, $65.00. Remington Enfield as issued, complete, perfect, $37.50. Krag carbine, good, $22.00. Spanish 32-20 good, $11.50. German Foth binoculars, 8x24, case, $45.00. Winchester ammunition, c.p. full patch: 33, 405, and 25-35 Winchester; 32 Winchester Special; 32, 30, 25 and 35 Remington autoloading; 3½¢ a round. 35 Remington autoloading staynless; 4½¢. 405 Winchester, soft point, staynless, 4½¢. 30-06 17 & 18 Issue, 2½¢. 303 British VII, 2¢. 45 Automatic 33 Issue, 4½¢. A. B. Dick Model 72 Mimeograph with accessories, $22.00. Want: Rifles, pistols, scopes, loading equipment, or what have you. Stamp please. J. W. Rush, 1105 Adelaide, Box 189, Normal, Ill. 10-42

SPRINGFIELD 30-06 BULL GUN, GOOD IN AND out, $75.00. 270 Mauser Bull gun double set trigger condition, perfect, $75.00. 270 Winchester factory grease Standard grade, open sights, $78.45. Details on request. Do not write unless really interested. Frank H. Robertson, 1502 Broadway, Houston, Texas. 10-42

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52 STANDARD, SPEEDLOCK, VERY GOOD, barrel excellent, very accurate, $50.00. A5 Lyman, ¼ minute click mounts, very good, $32.00. .45 Commercial Auto, new barrel, target sights, Sanderson grips, very good, hip holster, $53.00. 500-169 gr. Squibb bullets for .30-06 sized lubricated gas-checked, $6.00. Will consider Lyman Alaskan in trade. Entering Air Corps. O. A. Boyd, 1717 Prospect, Flint, Michigan. 10-42

92 MODELS, 25-20, VG. $25.00. 38-40, 44-40, good, $17.50. 94 Models, 25-35, 30-30, $27.50 each. .32 Special, $25.00, all VG. Parker (Trojan) double 12, $40.00. Fox (Sterlingworth) 16, $40.00 both VG to excellent. Good Lugers 30, 9 MM. $30.00. VG. Lugers 30, 9MM $35.00. Savage 300 fired 9 times $60.00. 250-3000 almost like new, $55.00. 280 Ross, excellent, 40 cartridges $45.00. L. T. Gibbs, 716 Kress Building, Houston, Texas. 10-42

WINCHESTER 52 SPORTER, LATEST MODEL, equipped with Weaver 330 scope and special Stith mounts. Gun and scope guaranteed perfect inside and out. Price $130.00. Will accept K-22 Masterpiece in perfect condition only, as part payment. Joe Desaye, Turner, Montana. 10-42

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MODEL 52 WINCHESTER, WITH A-5 SCOPE, very good, $60.00. Two A-8 Univex Movie Cameras, new, $6.00 each. 100 copies Rifleman back to 1928, $10.00. Genuine Browning Automatic Shotgun Case, for two barrels, very good, $18.00. Argoflex camera with case, new, $35.00. Winchester HW 218 Bee, Bishop fore-end and stock, Litschert 6X, dot reticule, 1¼" obj. Recoil absorber, excellent, best offer. Claude G. Kaelin, Buhl, Idaho. 10-42

WINCHESTER 54 220 SWIFT, LYMAN 48, EXcellent condition, $48.50. WANT—Colt Woodsman. J. H. Thomas, 617 W. Delaware Street, Toledo, Ohio. 10-42

FOR SALE: SPRINGFIELD SPORTER, REDfield rear, ramp front. Outside excellent, inside good. $56.00. M. A. Smith, Box #43, Inspiration, Arizona. 10-42

SAVAGE 99-G, CAL. .300, TAKEDOWN, VERY good, Jostam recoil pad, King triple bead front sight, cleaning rod, canvas case, box cartridges, $55.00. Colt 38 Police Positive (New Police), excellent, nickel finish, special grips, holster, belt, box cartridges, $30.00. Henry M. Brunn, 120 Bonvue St., Pittsburgh, Penna. 10-42

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FOR SALE: 250-3000 99R SAVAGE, EXCELLENT, $62.50. Model 24 Remington 22 L.R. restocked full size forearm and stock, checked, very good, $32.50. Smith & Wesson 38, new 6 inch barrel, Roper stocks, excellent, $35.00. Clarence Rush, Hamilton, Texas. 10-42

WINCHESTER MODEL '94, 25-20, PERFECT, 600 rounds, $50.00. Remington 41 Derringer Double Barrel, V.G., $8.00. 4" .30 Luger, perfect, 75 rounds, $35.00. J. S. Bonner, Box 418, Clarksdale, Miss. 10-42

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38 O.M. COLT, HEAVY BARREL, PERFECT, Sheep holster, 500 Hand Loads, 1000 Primers, $70.00; 63 Win., Excellent, #56 Lyman, 500 ctgs., $40.00; Service Krag, Excellent, .308 bore, $30.00; Rem. 30 S- '06 Special Fancy Stock, Perfect, Sheep Case, $85.00; 401 Win., Excellent, sheep case, 6 boxes S. P. ctgs., $70.00; Schmidt Loading Tool Compl. for 38 Spec. 30-30, 30-06, 30-40, 30 Cal. Bullet Puller, $45.00. Cash only. L. T. Ruosch, 1301 Dayton Ave., St. Paul, Minnesota. 10-42

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1917 ENFIELD AS ISSUED. OUTSIDE VERY good, inside good, $25.00. WANT: Vermin rifle. M. J. Lowen, 260 Sedgwick Ave., Yonkers, N. Y. 10-42

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H&R .32 AUTO, V. G. $15.00. 95-.44 BLK. CARtridges $2.25. Metal powder flask $1.50. Want accessories, bullets. Dave Babcock, 51 Oakdale, Pleasant Ridge, Mich. 10-42

KRAG, NEVER FIRED, 30 INCH ISSUE, SLIGHT blue wear, minor stock scratches, 30 rounds ammunition. Best offer over $25.00 by October 15th. Laurence George, Plainfield, Ill. 10-42

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LIGHTWEIGHT SAUER "KNOCKABOUT" 12 gauge, 26 inch Imp. Cyl., V. G., $65.00. Winchester 94 Carbine Deluxe, 30-30, select wood nicely checkered and oil finished, sling swivels, 4 boxes Express Ctgs., Perfect, $56.00. Winchester 63 Deluxe, 20 inch, select wood nicely checkered and oil finished, sling swivels, Sheard front, folding center, Lyman 2A Tang, checkered Butt Plate, Excellent, $55.00. P. R. Lilly, Valdosta, Ga. 10-42

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.220 SWIFT, MOD. 54; OUTSIDE VERY GOOD, inside excellent; Pacific dies and holder, 150 cases, 300 Sisk bullets, 35 factory loads, Lyman 5A, blocks. Best offer. WANT—300 Savage solid frame; hunting scope 330 or better, post, crosshair; Miniature Speed Graphic. H. M. Houghton, Box 607, Dickinson, No. Dak. 10-42

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CALIFORNIA CLOSES DEER SEASON, PROBably all seasons. Will sacrifice new guns, ammunition. Remington Model 81A, .300. King front, Lyman rear, finest rust proof case. New two months ago. Fired 8 sighting shots only. Perfect except wire scratch in varnish bottom of stock. 200 rounds ammunition. Cost complete, $123.50, sell $110.00. Remington Model 31TC, 12 Gauge, 30" ventilated, full, recoil pad, finest rust proof case, sealed case Super-X 6ch. & 4ch., case Xpert 7½ch. I have never fired this gun, factory perfect. Cost complete $152.50, sell $132.50. Winchester Model 21 Trap Grade Skeet Gun, 20 Gauge, 26" skeet barrels. Straight grip. Finest heavy leather case. Perfect. One case Super-X 7ch. One case Super trap 8ch. 5 extra boxes Super-X 7ch. This gun is the last of the original Trap grade Skeet Guns. A really beautiful gun and the sweetest thing ever put to shoulder. Cost complete $210.75, sell $160.00. Will pay premium for Lyman Alaskan, Zeiss 4X. Want Winchester 52 Sporter, Colt Match Target unaltered as to barrel length. Henry Davis, 309 South 22nd St., Richmond, Calif. 10-42

$1.00 GOVERNMENT LEATHER HOLSTERS for 45 Automatic Pistol. Slightly used. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa. 10-42

MANNLICHER-SCHOENAUER 8MM, 18" CARbine, set triggers, excellent, carrying strap, 70 rounds of ammunition, $105.00. WANT—Late M/70 Super .220 Swift, perfect. Henry M. Brunn, 120 Bonvue St., Pittsburgh, Penna. 10-42

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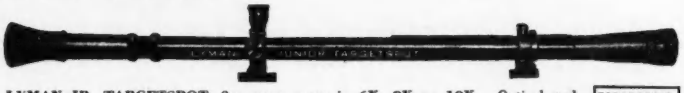

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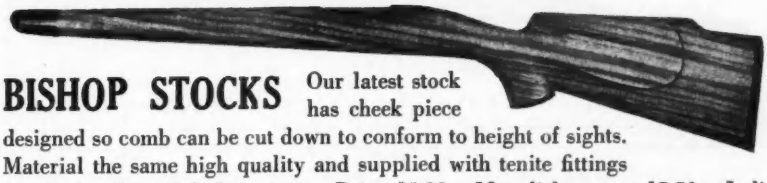

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WINCHESTER 52 H.B.; S&W. 22 TARGET: 38 M&P: 22 Ladysmith; Ideal 38 Special tool; Moulds #285227; #358311; 7 m/m cartridges; 7 m/m full-length die; Springfield custom sporter-stock; Newton parts; WANT—16" tires; kit-gun, bicycle; 30-06; 20 ga. tools; Newton rifle or action: 139 gr. 7 m/m bullets. Harold Peterson, East Providence, R. I. 10-42

FOR SALE—32 COLT POLICE POSITIVE, 4", EXcellent, $25.00; 38 S&W, 2", very good, holster, 85 cartridges, $25.00; or trade for Colt O.M.T. 38 heavy barrel or S&W 38/44 Outdoorsman. Ralph Mezger, 57 James St., Ossining, N. Y. 10-42

WINCHESTER SKEET MODEL 12-12, 26 INCH rib, new, $100.00. Remington Model, 11 12 Ga., 28 inch mod. rib, perfect, $80.00. Remington Model 11, 12 Ga., 28 inch full vent. rib, excellent, $75.00. Remington Model 11, 20 Ga., 28 inch full rib, excellent, $75.00. Winchester Model 86, 45-90, excellent, 1 box ammo., $35.00. Remington Barrel Model 11, 12 Ga., 30 inch full vent. rib, excellent, $35.00. Remington Barrel Model 11, 20 Ga., 28 in. Mod., excellent, $25.00. Colt Army Special 32-20, 6 inch, perfect, $40.00. S. & W. 45 Army 17, excellent, $35.00. Colt Express 45, 7½ inch, excellent, $30.00. 9mm Luger 4 in., ivory grips, excellent, 75 rounds ammo., $40.00. Colt D. A. 38, 6 inch, ivory target grips, blue slightly worn, otherwise excellent, $40.00. S. & W. M.P. 4 in., new in factory box, $50.00. S. & W. 35 Auto Pistol, new, 100 rounds ammo., $40.00. S. & W. Hammerless, pearl grips, 4 in., excellent, $25.00. Colt P. P. 22, 6 in., excellent to perfect, $32.50. Colt P. P. Special 32-20, 5 in., excellent, leather holster, $30.00. Colt Bisley 32-20, 4½ in., excellent, fancy ivory grips, new fancy $10.00 Heiser holster, $50.00. S. & W. 32, long Revolver, 3 in., walnut grips, nickel, excellent, $27.50. S. & W. 10 in. Camp Perry 22, excellent except blue slightly worn, with holster, $35.00 W. J. Bath, Independence, Kansas. 10-42

MODEL 70, .257, LIKE NEW, 48 W.J.S., $70.00. Colt Bisley 4¾, 32-20, holster, good, $21.00. Pacific 30-06 tool, high speed steel, like new, $20.00. High speed steel resizer a&b, seating die e&f, shell trimmer. 257 Roberts, new, $9.50. Wesnitzer prime pocket cleaner, $1.50. Ideal powder measure micrometer adjustment, excellent, $8.00. Pacific scales, weights, new, $6.00. 440 Weaver, Stith mount, Model 70, new, $35.00. Front and rear sight for Model 37 Remington, new, $7.50. J. D. Huffman, Wallace, Idaho. 10-42

VERY GOOD to EXCELLENT: L. C. SMITH Eagle Grade Single Trap, leather case, $110.00. Winchester 348 DeLuxe, Weaver 330 mounted, leather scabbard, shot 60 rounds, $100.00. No trades. F. P. Lang, Box 692, Concrete, Wash. 10-42

PACIFIC .30-06 DIES AND SHELL HOLDER, excellent, $8.50. Ideal #10 Tool with shell expanding chamber and muzzle resizer, .30-06, $6.50. Colt Ace, good, $37.50. J. Jeffron, 826 West Ninth Street, Davenport, Iowa. 10-42

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FOR SALE: EXCELLENT AND PERFECT .32 caliber Smith & Wesson 3", blue, holster, $45.00. H. A. Paskow, 125 Broad St., Elizabeth, N. J. 10-42

BROWNING AUTOMATIC 12 GAUGE 5 SHOT Rib, Perfect, $80.00; S&W, M&P .38 Special; Nickel 2 in. Holster, Excellent to Perfect, $45.00. Ralph Dittmann, 427 W. Bender Rd., Milwaukee, Wisconsin. 10-42

.33 CAL. MODEL 86 WINCHESTER, REBARreled, reblued, proof fired only, 2 boxes shells, $35.00; 30-30 Model 94 Winchester, rebarreled, reblued, proof fired only, Pacific rear peep, Marble bead front, shells, $35.00; Enfield Winchester as issued, good, $25.00; Winchester Model 76, 45-60, fair, 2 boxes shells, $12.00; Krag, cut down, improved stock, Pacific click rear, Aperture front, good, $25.00. R. J. Houtz, Elburn, Ill. 10-42

SELL—LYMAN 438, REGULAR MTS. V. G. $16.00; Sabin 8X, Stevens mts., Good, $12.00; Rifle in America, Good, $5.00. Kentucky Percussion, maple, engraved patchbox, $12.00; 26½ m/m mounts, windage, $6.00. 43, .45, 2⅞" Sharps cases, New. Best Offer. 80, .270 cases $2.50. 250, Savage .303 New empties, 3¢ each. B. & M. #26, .44 Spec. Complete, Ideal die, $10.00. Want—Ladysmith. Ray Smith, Route 1, Selingsgrove, Pa. 10-42

$1.00 RIFLE MOUNT FOR TELESCOPE sight with instructions. Limited supply. Weil's Curiosity Shop, 12 Strawberry St., Philadelphia, Pa. 10-42

FOR SALE—WINCHESTER 65, 218 BEE, SCOPE blocks, sling studs, 71 kleanbores, excellent, $45.00. Winchester 74 Auto, 22 short, sling swivels, checkered, excellent, $18.00. Colts 45 Army Auto, new holster 108 cartridges good, $30.00. 20X Telescope French make, excellent, $10.00. WANT—Marlin 39; H. & R., New Defender; Colts 22 Bankers Special. Milton Pittman, Columbus, Nebr. 10-42

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.280 DUBIEL MAGNUM MAUSER HEAVY BARrel sporter by Dubiel, D. S. Trigger, Zeiss Zielklein Redfield mount, Star Delux stock, excellent, proof-fired only, exceptionally accurate, $250.00. Gurley Transit No. 62, with 2 Rodmens rods, accurate condition, $300.00. Edward Anderson, 1041 Boyd Ave., Fresno, Calif. 10-42

.30 REMINGTON, MOD. 8, LYMAN PEEP, 40 shells, very good, $60.00; Remington Mod. 11, 12 Ga. 28" Mod., very good, $45.00. Walter Price, 922 Rogers, Okmulgee, Okla. 10-42

MODEL 70, WINCHESTER SUPER GRADE, Like new, Shot only 15 times, Case, 100 Rounds ammunition. Case $145.00. Russell E. Simpson, 309-24th St., Virginia Beach, Va. 10-42

CAMP PERRY, 6", EXCELLENT, $35.00. S&W 22 LR, Single, 10", Very Good, $30.00. 45 Colt Gov't. Auto, Reblued, Match Barrel, Some King Features, 2 Extra Clips in Leather Case, Holster, Excellent, $45.00. Parker 16Ga., Double, Hammerless, Blueing worn, 25", Good, $40.00. Stan Meyers, 630 Gramatan Ave,, Mt. Vernon, New York. 10-42

MOSSBERG SPOTSHOT AND STAND, FRONT lens cover missing, very good, $25.00. Sears Ranger Target rifle, inside very good, outside good, $21.00. WANTED—25, 30 cal. moulds, gun books. Paul Albrecht, Courtenay, No. Dak. 10-42

BALLARD 32-40, BORE PERFECT, ACTION tight, double set triggers, $18.00. Krag, no stock, good for action, $8.00. S&W 44 Russian revolver, fair, 2 boxes of black powder shells for same, $8.00. H. Clark, 330 Brookside Ave., Allendale, N. J. 10-42

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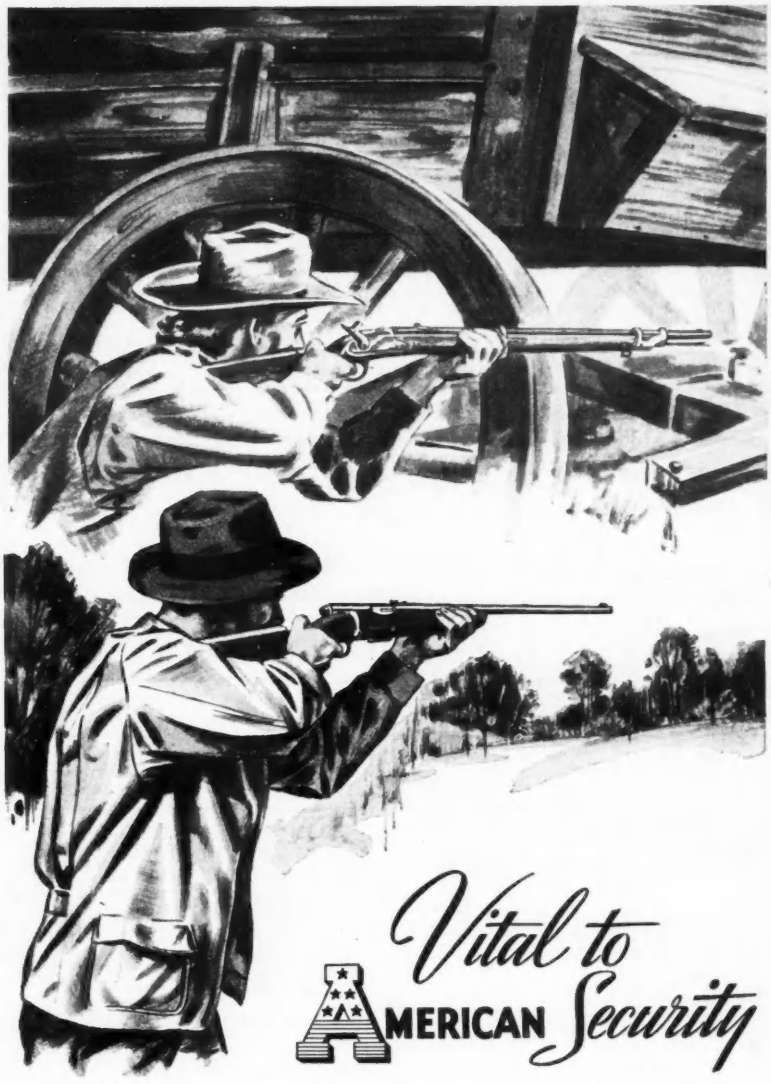
.45 COLT SINGLE ACTION ARMY, 7½", Good, $25.00. .380 Remington, good, box cartridges, $25.00. 72-8 gauge smokeless shells, BBs, $7.00. 100 50-100, 450 50-110 cartridges, clean, $8.00. 5 Springfield Bolts, used, not nickel steel, $3.00 each. New firing pins, .22 Colt Lightning, $1.50. Remington 37 stock, old style, excellent, $5.00. Krag issue stock, full length, very good, $4.00, another, shortened, $3.00. L. G. Anderson 3441 N. Damen Ave., Chicago, Ill. 10-42

SELL: 200 .30-06 '17-'18, $5.00. .45 COLT S.A.A., fair, $12.00. WANTED—English, German Double Rifle, give full details; .35 Buffalo Newton; Remington 11A 12 Ga.; Luger 9mm long barrel Carbine; Military 20 shot Mauser Automatic; 300 H. & H. Bull Gun; all above must be reasonable. Michael Bratkowsky, 95 Balsam, Bridgeport, Conn. 10-42

NO. 3 ITHACA 16-28, F. & M., NEW, FIRED 10 times, $80.00. Remington 25, 32-20, checkered, sling, excellent, $25.00. Lyman 22 Jr. Scope, good, $6.00. S. & W. Hammerless, 32-3½, good, $12.00. Arthur Boocks, Weirton, W. Va. 10-42

COLT OFFICER'S MODEL 38, SPECIAL 6" BARrel, $38.00. Colt New Service 44 Russian, 7½" barrel, target sights, bullet mould, Ideal loading tool, empties, $30.00. Otto Zabel, Faribault, Minn. 10-42



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WINCHESTER 52 H.B., MARKSMAN STOCK, Lyman sights, $55.00; Winchester 70, Target Model, .30-06, Lyman sights, $75.00; Winchester 54, Hornet, 48 rear, $50.00; Browning 16 Ga. Auto, $45.00; Colt Match Target Woodsman, $45.00; all very good to excellent. Fecker ⅞", 8X Scope, $35.00; Malcolm 6X, $25.00; 20X Drawtube Spotting Scope, $25.00; ammunition. Gerow D. Brill, 528 Harden Street, Columbia, S. C. 10-42

FOR SALE, SEDGLEY, 30-06, 48 LYMAN, PERfect, $110.00; Remington Model 11, 12 ga., Auto 30" full, $50.00; Winchester Model 12, 12 ga., full, $42.00; Winchester Model 97, 12 ga., full, $36.00. Above Excellent inside, very good outside. Winchester Model 94, 30-30 Carbine, $27.00, also 32 Winchester Special Carbine $27.00, Very Good. Savage 99, 22 Hi-Power, Good, $25.00; Colts 25 Auto, Perfect, $21.00. Lawrence M. Kelso, Rocky Ford, Colo. 10-42

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EXCELLENT KRAG SPORTER, 25" BARREL. Lyman sights, $25.00. Alden Healey, 59 Baystate Road, Pittsfield, Mass. 10-42

FOR SALE—S&W 1917, COLT N.S. .45 BOTH fair inside, good out. Mauser 1898 parts. WANT —Springfield service barrel and receiver assembly. Type "C" Stock. K. Wendt, 216 Northland Ave., Buffalo, N. Y. 10-42

SELL: EXCELLENT, ITHACA 37, 16, FULL. Pad, $45.00: Excellent, Remington, 141 35, Peep. Leaf, Pad, Sling, $55.00: Excellent. Remington 121. 22 Peep, Pad, Sling, $25.00: Excellent, Winchester 64, 219 Zipper, Pad, Sling, $50.00; Hunting Bow. $5.00. Weaver 29 S Scope, $10.00. L. R. Colbert. President St. Freight Station, P.R.R., Baltimore, Md. 10-42

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REMINGTON DERRINGER, $12.50; .380 ACP, $25.00; .45 ACP, $45.00; Savage, 25-35, $35.00; .45 Colt Frontier, $12.50; Light barreled Woodsman, $25.00; 25-35 Winchester carbine, $32.50. Frank Pratt, Porterville, California. 10-42

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SMITH WESSON K22, HONED ACTION, EXCELlent, $55.00. Colt Ace, Minor holster wear otherwise perfect, $48.50. Winchester 64, Deer 24 inch Fine Wood, Oiled quick sling Factory grease and carton. Bargain, $69.50. Colt 22-45 match grade beautiful factory cased set Stevens adjustable sights, Fine honed action, perfect condition, $145.00. Woodsman 6¾ inch, perfect, $45.00. J. G. Picone, 4808-0½ Street, Galveston, Texas. 10-42

LUGER, 30, NEW, 12 INCH, CARBINE BARREL, $60.00, or Remington 25, Automatic, Rifle, or Winchester, Model 12, Heavy Duck. Bayard, 32 Automatic, $25.00. Ranger, similar to Stevens, their advertisement Page 49 September Rifleman, $27.50. Above Two Excellent, Weaver, 333, $9.00; Krag carbine $37.50. Iver Johnson, Hammerless 32, $14.00. Joe Bell, Darlington, Wis. 10-42

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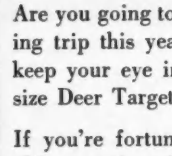

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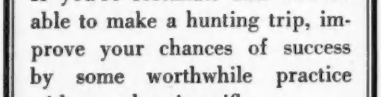

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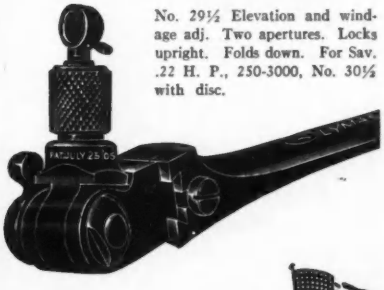

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WANTED—WEBLEY "SENIOR MODEL" AIR Pistol. Cal. 177. Must be excellent to perfect. Halford Lembke, 318 Oceanic Bldg., Seattle, Wash. 10-42

WANTED—BARREL FOR 20 GAUGE 11A REMington Automatic; X-Ring Bullet Trap. William Taylor, 760 Excelsior, Akron, Ohio. 10-42

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WANTED—M-70, .30-06 OR SAVAGE 99-R.S. .300. John Kochevar, 127 E. Sheridan St., Ely, Minn. 10-42

WANTED—BRAND NEW OR FACTORY PERfect Colt Woodsman Target or Match Target or Sport Model. Also want Colt Service Model Ace with .22-.45 Conversion Unit, floating chamber model. Also want .22-.45 Conversion Unit only. Also want 7.65 Luger, perfect. Give full description and prices. Gordon Persons, Box 1390, Montgomery, Alabama. 10-42

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WANTED—S. & W. MAGNUM 3½", 6" OR 8". Stoeger 25-shot magazine for .45 Colt Auto. Also, Luger .22 Caliber insert assembly and accessories and Webley and Scott 9mm Automatic Pistol. Arthur Leidesdorf, Elberon, New Jersey. 11-42

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WANTED—22 CAL. COLT OFFICIAL POLICE Revolver. Bill Williams, Box 501, New Iberia, La. 10-42

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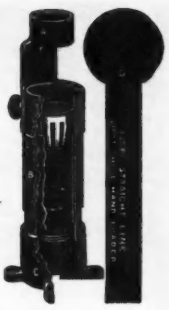

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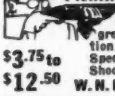

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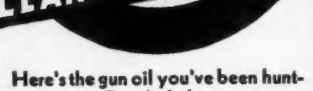

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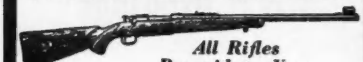

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WANTED—FOR CASH: AMMUNITION, any quantity, all calibers. Write Public Sport Shops, Dept. R-53, 13 So. 16th St., Philadelphia, Penna. 10-42

WANTED—EXCELLENT BARREL WITH EXtractor for Winchester S.S. Rifle, 25-35; 32-40 or 30-40 preferred. Describe fully. Howard Irish, 755 Pinedale Court, Hayward, Calif. 10-42

WANTED—COLT .45 AUTO, NATIONAL MATCH Model with adjustable sights. Name your price. Also Pacific tool with dies for .250-3000 or .45 Auto. Describe condition. B. Evans, Life Member, 13 Williams Lane, Chevy Chase, Maryland. 10-42

WANTED—EXCELLENT .25 REMINGTON, 30S or M14, .25-.35, 250-3000. Cash. Kenneth Watts, 402 Union Avenue, Mamaroneck, N. Y. 10-42

WANTED — EXCELLENT CONDITION, HIGH Grade English, Belgian, or German Over & Under, 20 gauge, light weight shotgun; 32 Caliber Webley & Scott Automatic Pistol; and 12 Gauge English Shotgun chambered for *two inch shells only*. Grant Pierce, 64 Alumni Ave., Providence, Rhode Island. 10-42

WANTED—STOEGER'S 25 SHOT MAGAZINE TO fit Colt 45 Automatic. Old Remington Single Shot Pistols Cal. 50. W. B. Hescock, Freeport, Maine. 10-42

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WANTED—VERY POOR 45 AUTO. 25 CAL. M. C. Bullets. L. S. Porter, 493 Mt. Vernon, Oshkosh, Wisc. 10-42

WANTED—MONOCULAR, 8X30 OR MORE power; Zeiss, Bausch & Lomb, or other good make. Dr. Richard Ackart, #1 Stadium Road, Charlottesville, Virginia. 10-42

WANTED—COLT SHOOTING MASTER OR NEW Service .357 for cash. L. W. Dischinger, 5605 Quimby Avenue, Cleveland, Ohio. 10-42

WANTED—TUBE SIGHT WITH THREE Point Lyman Mounts or mounts only. Atlas or South Bend 9 X 30" Lathe. J. F. Morris, Nevada, Ohio. 10-42

WANTED—SMITH WESSON LEVER ACTION Pistols. Describe fully giving condition and price. Charles Fritz, 2169 Glenside, Norwood, Ohio. 11-42

WANTED—8MM MOVIE CAMERA, 22 TARGET rifle, Mercury camera. Have complete ICS Civil Engineering course with bound texts. Ralph Bisel, Badin, North Carolina. 10-42

WANTED—S. & W. .357 MAGNUM, 6½ INCH barrel. Must be excellent to perfect. All replies answered. G. J. Brooks, 1642 No. Beverly Dr., Beverly Hills, Calif. 10-42

WANTED — LYMAN ALASKAN AND 10X Targetspot; Lovell bullets. Gerald Cross, Lathrop, Missouri. 10-42

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WANTED—WINCHESTER MODEL 52 TARGET Rifle complete iron or telescope sights, unable to pay cash, must have terms, owner make own terms. Can furnish Bank of America Credit reference. H. E. Rayner, 1643 So. San Joaquin St., Stockton, California. 10-42

WANTED—.35 NEWTON RIFLE, CARTRIDGES, and new unfired cases. Earl Burgess, Route 7B, Waxahachie, Texas. 10-42

WANTED — EXCELLENT MATCH TARGET Woodsman and 38 Shooting Master. Earl Briggs, 58 Magnolia Ave., Lynn, Mass. 10-42

WANTED—UNERTL ONE INCH OR TARGETspot Scope and Lyman Alaskan Allweather. George Zimmerman, Euclid Avenue, Bristol, Virginia. 10-42

TRADING POST

Bargain lists and announcements by the makers and distributors of everything used by gun enthusiasts, active outdoorsmen and sportsmen collectors. New advertisers are required to furnish at least one bank and two business references. We believe they are all straight shooters and thoroughly reputable, but we request an immediate report of any unsatisfactory dealings.

FIREARMS—GENERAL

USED RIFLES: WINCHESTER MODEL 94 Cal. 25-20, excellent used condition, $22.50 each; Remington Single Shot Rolling Block Carbines, 30-40 Cal., fine condition, $12.50. New Rifles: Winchester Rifles Model 70 Standard Cal. 270, 22 Hornet, 300 Mag., $78.45. Public Sports Shops, Dept. R-53, 13 So. 16th St., Philadelphia, Pa. 10-42

REMINGTON WOODSMASTER .300 CAL. Automatic, factory sealed box, money order $88.00. Beikirch's Hardware, 755 Winton Rd., N., Rochester, N. Y. 10-42

SHOT GUNS 12 GAUGE SAVAGE OVER and Under, Model 420, fine condition, $30.00. Remington Auto Shotguns, 16 or 20 Gauge, Model 11, brand new, $68.15. Public Sports Shops, Dept. R-53, 13 So. 16th St., Philadelphia, Pa. 10-42

20 GAUGE FOX STERLINGWORTH, Skeet Double, S.S.T., Beavertail, like new, $59.00. 12 Gauge Model 12 Skeet, Cutts, matted rib, like new, $75.00. Winchester 20 Gauge, 26 mod., new, $45.00. 600x17 tubes, new, 4 only, $4.00 each. Gabriel Pacciarelli, 1447 Neilson St., Utica, N. Y. 10-42

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ONE SPRINGFIELD .30-06 BISHOP MANNlicher type stock deluxe grade, Redfield No. 70 and ramp front sight, $110.00. .270 Magnum Sukalle medium-heavy barrel, Bishop deluxe stock, scope blocks, empty cases and loading dies, $115.00. Photographs and description on request. E. C. Bishop & Son, Warsaw, Missouri. 10-42

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ITHACA MAGNUM 10-30 DUCK GUN, FIRED nine times, $75.00. Win. Hi-Wall D.S.T. 22 L.R. 30" oct. barrel relined Diller, blued, perfect bore, scope blocks, $37.50. Savage 18D Hornet, peep sight, like new, 2 boxes ammo, new Whelen sling $42.50. Flaig's Hunters Lodge, Millvale, Penna. 10-42

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EXCELLENT SAVAGE 22, HIGH POWER, Weaver scope, about 200 Kleanbores, canvas zipper cover, beauty, $85.00. Smith, Top Break, .38, 3¼", nickeled, box cartridges, good, $11.00. J. Edmond Bingham, Longford, Kansas. 10-42

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Calibre	Make	Wt. Bullet	Style of Bullet	Minimum Lot Wanted	Maximum Lot Wanted
22 Hornet	Winchester	45	S. P.	200	500
22 Hornet	Winchester	46	H. P.	200	500
22 Hornet	Western	45	S. Pt.	200	500
22 Hornet	Western	46	O. P. E.	200	500
220 Swift	Winchester	46	H. P.	200	400
220 Swift	Winchester	56	H. P.	200	500
220 Swift	Winchester	46	F. P.	200	400
220 Swift	Western	46	O. P. E.	200	400
220 Swift	Western	48	S. P.	200	400
257 Remington Roberts	Winchester	117	H. P.	200	400
257 Remington Roberts	Western	100	O. P. E.	200	500
257 Remington Roberts	Western	117	S. P.	200	400
270 Winchester	Winchester	150	O. P. E. B	200	500
270 Winchester	Winchester	100	S. P.	200	400
270 Winchester	Western	150	S. P.	200	400
7mm.	Winchester	175	S. P.	200	400
7mm.	Western	175	S. P. B. T.	200	500
.30-'06	Remington	180	Palm Match M. C.	200	400
.30-'06	Winchester	180	Precision F. P.	200	400
.30-'06	Western	150	O. P. E.	200	400
.30-'06	Western	180	M. C. B. T.	200	400
.30-'06	Western	180	O. P. E. B.	200	400
.30-'06	Western	220	M. C. B. N.	200	400
.30-'06	Western	220	S. P. B. T.	200	400
300 Magnum	Winchester	220	S. P.	200	300
300 Magnum	Winchester	180	H. P.	200	300
300 Magnum	Winchester	180	F. P.	200	300
300 Magnum	Western	180	O. P. E. B.	200	300
300 Magnum	Western	220	S. P. B. T.	200	300
8x57 8mm. Mauser	Remington	236	S. P.	200	400
8x57 8mm. Mauser	Winchester	236	S. P.	200	400
9mm.	Any make not over 5 yrs. old	280	Any point	200	500
.22 Long Rifle	Western Super Match Mark II	40	.....	1000	3000
.22 Long Rifle	Remington Palma	40	.....	1000	3000
.22 Long Rifle	Remington Police Target Master	40	.....	1000	3000
.22 Long Rifle	Peters Dewar	40	.....	500	1500
.22 Long Rifle	Peters Police Match	40	.....	500	1500
.25 Auto (New Police)	Any of the big four	50	F. P. (M. C.)	500	1500
.32 S. & W. long	Any of the big four	98	Lead	500	.....
.38 S. & W. Spec.	Any of the big four	158	Lead	500	.....
.38 S. & W. Spec.	Any of the big four	148	Mid Range Wad cutter Target	500	.....
.38 S. & W. Spec.	Any of the big four	158	H: Speed	500	.....
.38 S. & W. Spec.	Any of the big four	200	Lead	500	.....
.44 W. C. F.	Any of the big four	200	S. P.	500	2000
.45 Colt	Any of the big four	255	Lead	500	1000
.45 Auto.	Any of the big four (no Frankford)	230	F. P.	500	1000
.45 Auto. Rim.		230	F. P.	500	1000

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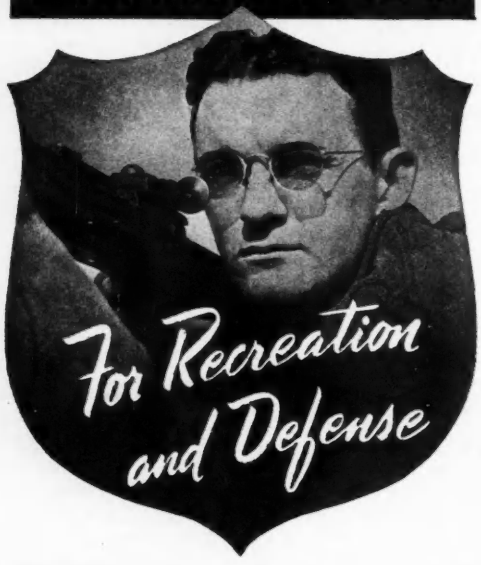

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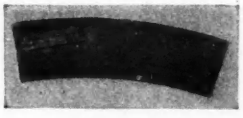

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MISCELLANEOUS

SHOT GUN COVERS, ALL LENGTHS, $1.00. Precision Barometers, values up to $12.00, brand new, special sale, $4.95. Household Thermometers, new 75¢ value, brand new, 25¢. Physicians Thermometers, pocket style with case, brand new, 4 for $1.00. Gun Oil, 1-oz. bottles, 15¢ each, $1.50 per dozen. Heavy canvas Leggings, 49¢ per pair. Public Sport Shops, Dept R-53, 13 S. 16th Street, Philadelphia, Penna. 10-42

SALE OF SURPLUS GOVERNMENT Goods. Springfield Rifle Sling Straps, brand new, $1.25, Swivels, 75¢ per pair. Leather Slings A-1 condition, 50¢. Springfield Sight Gauges, $1.00, 30-06 Empty Brass Cases, 75¢ per hundred. Brass Clips for 30-06 Cartridges, $2.00 per hundred. Canvas Canteen Covers, fine condition, 25¢. Public Sport Shops, Dept. R-53, 13 So. 16th St., Philadelphia, Penna. 10-42

RECEIVED TOO LATE TO CLASSIFY

WINCHESTER #116 AND WESTERN #6½ N.M.N.C. small rifle primers, satisfactory results in pistol cases taking #1½ primer. Not more than 2000 to a purchaser for best offer (accompanied by remittance and stamped return envelope) received by October 10th. A few Winchester Large Rifle Primers, non-mercuric but corrosive, fresh stock, 75¢ per hundred, 500 limit. A few similar primers but suited to large pistol use, same price, 1000 limit. Percussion Caps, fresh stock, Remington #9, #10, Winchester #11, $2.50 per thousand, plenty on hand. Limited supply Musket Caps, $3.50 per thousand. Western Shotgun Primers, #209, #3, $6.75 per thousand. Hercules Unique, $2.25 per pound, other powders as advertised page 58, September issue. 25¢ packing charge on orders under $5.00. Federal Explosives permit (Not Firearms License) or proper copy must accompany order. Robert Haelig, Boundbrook, N. J. 10-42

FOR SALE: MEEPOS TOOL, DIES FOR MANY calibers, $25.00. WANT—For cash, Ideal tool complete for .257 Roberts. I" to 6" Mauser or Comet Vernier calipers. Need several pair for aircraft parts work. Mac Tabor, 600 S. Mentor, Pasadena, California. 10-42

WANTED—WILL PAY THE FOLLOWING prices for 22 ammunition, any make and any amount, $6.75 L.R., $5.35 Long, $4.20 Short, per M. Walter Ambrush, 409 W. Union Blvd., Bethlehem, Penna. 10-42

FOR SALE: 3 INCH ALVAN CLARK PRISMATIC Scope, Rack focus, perfect. Also 2 Vion Telescopes, the 33 Rifflerange, and one 45 power. Dr. F. N. Solsem, Spicer, Minn. 10-42

THREE KRAGS, AS ISSUED, ABOUT V.G., $20.00 each, one a little better, $25.00. Original Carbine, Krag, stock split but O.K., V.G., $25.00. Latest 94 Carbine, 30-30, excellent, $40.00. Remington Model 141, .35 perfect, $65.00. Model 14 Carbine, .35, $45.00. Model 1920 Savage 300. Savage 23D, slowlock, perfect, checkered, $38.00. Robert Haelig, Boundbrook, N. J. 10-42

SMITH & WESSON 44 SPECIAL TARGET, excellent, $50.00. J. Duffy, 1321 Delafield Pl., N.W., Washington, D. C. 10-42

SELLING MY PETS. BROWNING OVER-Under 28" two stocks, $100.00. One Parker 20, ejectors, new Circassian stock, 26" skeet, 30" choke, $135.00. Parker D-H 30" 16 gauge 7½ lbs., duck gun, $100.00. New, .220 Varminter 26" springfield speed lock and sporter stocked, test ⅜", 100 yards, $100.00. .220 Varminter Mauser, set triggers, 24" unfired, $75.00. .30-06 Select Nat. Match, type C, tapped for Noske scope, never fired, $75.00. New, .357 S. & W. Magnum, 8¾", King sights, Roper grips, $100.00. New, Colt Woodsman 6½", $40.00. Good, Colt 6" Official Police, Roper grips, .22 caliber, $30.00. Hervey Lovell, 3345 N. Gale, Indianapolis, Ind. 10-42

NEW COLT BELT MODEL, FACTORY CONversion, one piece Ivory, $25.00. Russian Target Models, .32-44, .38-44, 6½" nickeled, $30.00 and $35.00. S. & W. '17, 100 cartridges, $35.00. S. & W. .32 Hammerless, $17.50. 500 each .38 Sp., .45 Auto cases resized, primed, $2.00 per C. 500 .30-06 F.A. cases, fired once, $1.00 per C. WANT—S. & W. .38 Hammerless, Heavy Duty .38 or .44. Stamp. E. E. Robinson, Palomares Road, Hayward, Calif. 10-42

FOR SALE: MAGNUM MAUSER .35 NEWTON G. & H. stocked 25" Sukalle barrel, plenty new cases, bullets, primers, bullet seater, full length resizing die, new perfect, $275.00. Earl J. Thee, 3780 Wilshire Blvd., Los Angeles, Calif. 10-42

SELL OR TRADE: 9M MAUSER CUSTOM rifle, ribbed barrel, engraving, double trigger, cheekpiece, cartridges, for two 6x16 tires, new or like new, or $60.00 cash. Roy Vail, Warwick, N. Y.

TRADE—300, 1918 .30-06, FOR 150, 12 GAUGE shells. Henry Lupi, 75 Armandine Street, Boston, Mass. 10-42

FACTORY LOADS, .38-44 SPECIAL HI-SPEED and Wad Cutters; 38 Police Positive; 45 Auto Colt; 220 Swift; best offer per 100. WANTED—M70 in poor condition or 375 Magnum. Stamp please. Athos Longo, 279 Fellsway West, Medford, Mass. 10-42

WINCHESTER 52, SPEED LOCK, EXCELLENT bore, $50.00. Remington 37, perfect except stock shows use, all accessories, $65.00. Winchester 75, shot only 250 times, no sites, $35.00. Exceptionally fine Wheelock Pistol, $110.00. Rarest condition, unfired condition Paterson Colt Carbine, $350.00 or trade. Two nice Kentucky Rifles, and Target Muzzle Loaders. Will trade for .357 Magnum, Free Pistol, fine Relic Guns, genuine Kentucky Pistol. Miller Bedford, New London, Ohio. 10-42

WANTED—BELGIAN BROWNING AUTOMATIC 12, excellent to perfect, bargain. J. Di Cresce, 5534 Cooper, Detroit, Mich. 10-42

WANTED—4¾" BARREL FOR S. A. A. ARMY .45, Colt .38 Pocket Automatic, Colt Super— .38 Automatic, Colt .25 Automatic, Remington .41 Derringer, Colt .31 Muzzle Loading Revolver in firing condition. Col. P. E. Shanahan, Wright Field, Dayton, Ohio. 10-42

SELL OR TRADE—SAVAGE 219 HORNET, EXcellent. Box Kleanbore, $20.00, or best hand gun offer, very good or better. Glenn Hanna, Kokomo, Ind. R.#1. 10-42

TRADE FOR SAVING STAMPS: O.M.T. 4" 38 Spl., factory, extras, $50.00. Police Positive 22, $23.50. 25 A.C.P., $10.00. Savage 25-20, new M219, $16.50. 12 Ga. Meridan box shells, $16.50. Firestone Auto Radio, $22.50. 38 Police Positive Spl., $20.00. .32-20 S. & W., $20.00. Stamp for answer. Joe Cross, Anthon, Iowa. 10-42

FOR SALE: .22 DIANA AIR RIFLE, CROTCH stock cheekpiece, good, $16.50. .32 Savage Automatic, good, $15.00. .38 I.J., 4", nickel, excellent, $12.00. Roy Vail, Warwick, N. Y. 10-42

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